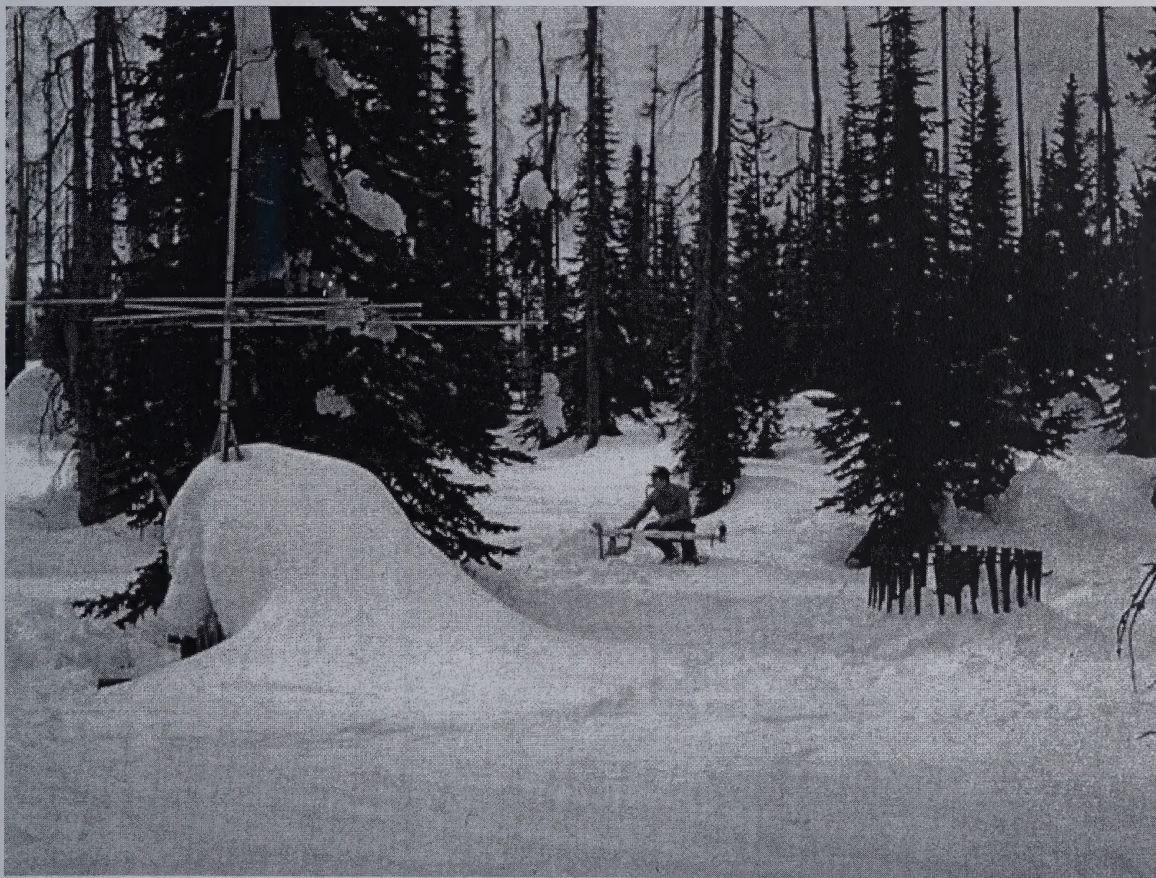


Montana Water Supply Outlook Report May 1, 2004



Picture: Black Bear SNOTEL Site - Winter of 1997

Water Supply Outlook Report

and Federal - State - Private Cooperative Snow Surveys

For more water supply and resource management information, contact:
See Attached List

How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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Where to Get More Information

This contact list provides you with the names and phone numbers of individuals who can provide more detailed snow survey information for each county.

Beaverhead County

Victor Hager
683-3800

Big Horn County

Evan Van Order
665-3442

Blaine County

Matthew Crampton
357-2320

Broadwater County

Kelly Morris
266-3146

Carbon County

Gregory Evertz
962-3641

Carter County

Wayne Yost
775-6355

Cascade County

Marty Metz
727-7580

Chouteau County

Dan Van Voast
622-5627

Custer County

Terry Heck
232-7905

Daniels County

Stanley French
487-5366

Dawson County

Linda Peterson-Lohse
365-5566

Deer Lodge County

Glen Green
846-1703

Fallon County

Ann Fischer
778-2217

Fergus County

Patty Creamer
538-7401

Flathead County

Angel Rosario
752-4242

Gallatin County

Gordon Hill
522-4000

Garfield County

Sue Fitzgerald
557-2232

Glacier County

Mark Johnson
873-4292

Golden Valley County

John Rouane Jr.
323-2103

Granite County

Mary McDonald Pochelon
859-3291

Hill County

Deana Grabofsky
265-6792

Jefferson County

Julie Sacks
287-3215

Judith Basin County

Rick Caquelin
566-2311

Lake County

David Wolf
676-2841

Lewis and Clark County

Mindy Gauthier
449-5000

Liberty County

Dawn Wickum
759-5778

Lincoln County

Kirk Sullivan
296-2233

Madison County

Ole Berkram
842-5741

McCone County

Regan Fanning
485-2744

Meagher County

Tammy DeCock
547-3633

(over)

Mineral County

Tony Prince
829-3395

Roosevelt County

Robert Bray
787-5232

Wibaux County

Katrina Johnson
796-2211

Missoula County

Tony Prince
829-3395

Rosebud County

Rocky Schwagler
346-7333

Yellowstone County

Valerie Roberson
657-6135

Musselshell County

John Rouane Jr.
323-2103

Sanders County

Don Feist
826-3701

Park County

Ron Hoagland
222-2899

Sheridan County

Monica Friedrich
765-1801

Petroleum County

Nikki Lott
429-6646

Silver Bow County

Julie Sacks
287-3215

Phillips County

Lorna Philp
654-1334

Stillwater County

Philip Sandoval
322-5359

Pondera County

Lanny Walker
278-3922

Sweet Grass County

Chuck Roloff
932-5160

Powder River County

Carol Hilliard
436-2417

Teton County

Stacy Denny-Eneboe
466-5722

Powell County

Glen Green
846-1703

Toole County

Misty Vermulm
434-5234

Prairie County

Bob Prongua
635-5381

Treasure County

Stewart Greer
342-5510

Ravalli County

Lane Johnson
363-5010

Valley County

Denise Wiedenheft
228-4321

Richland County

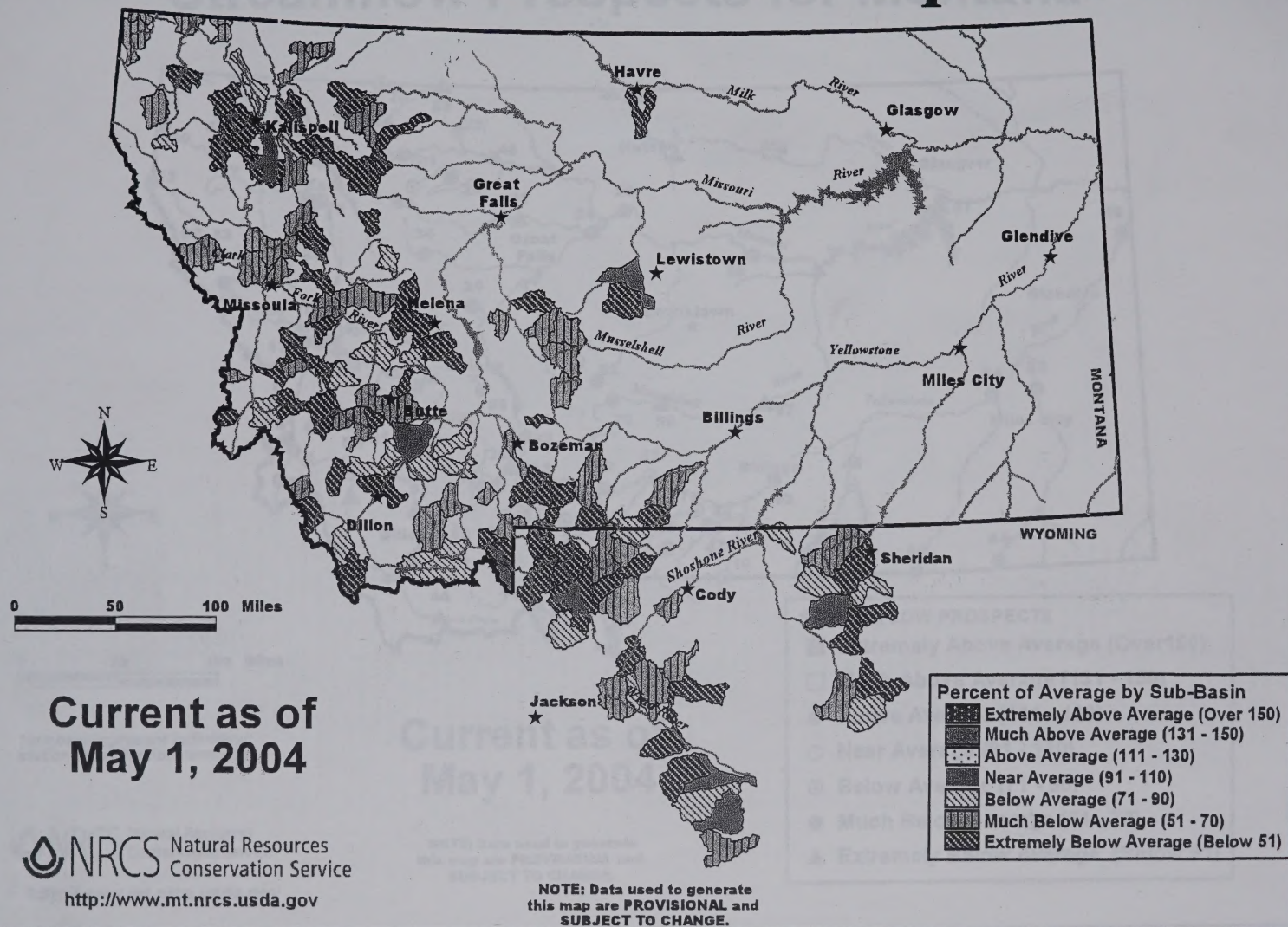
Jamie Selting
433-2103

Wheatland County

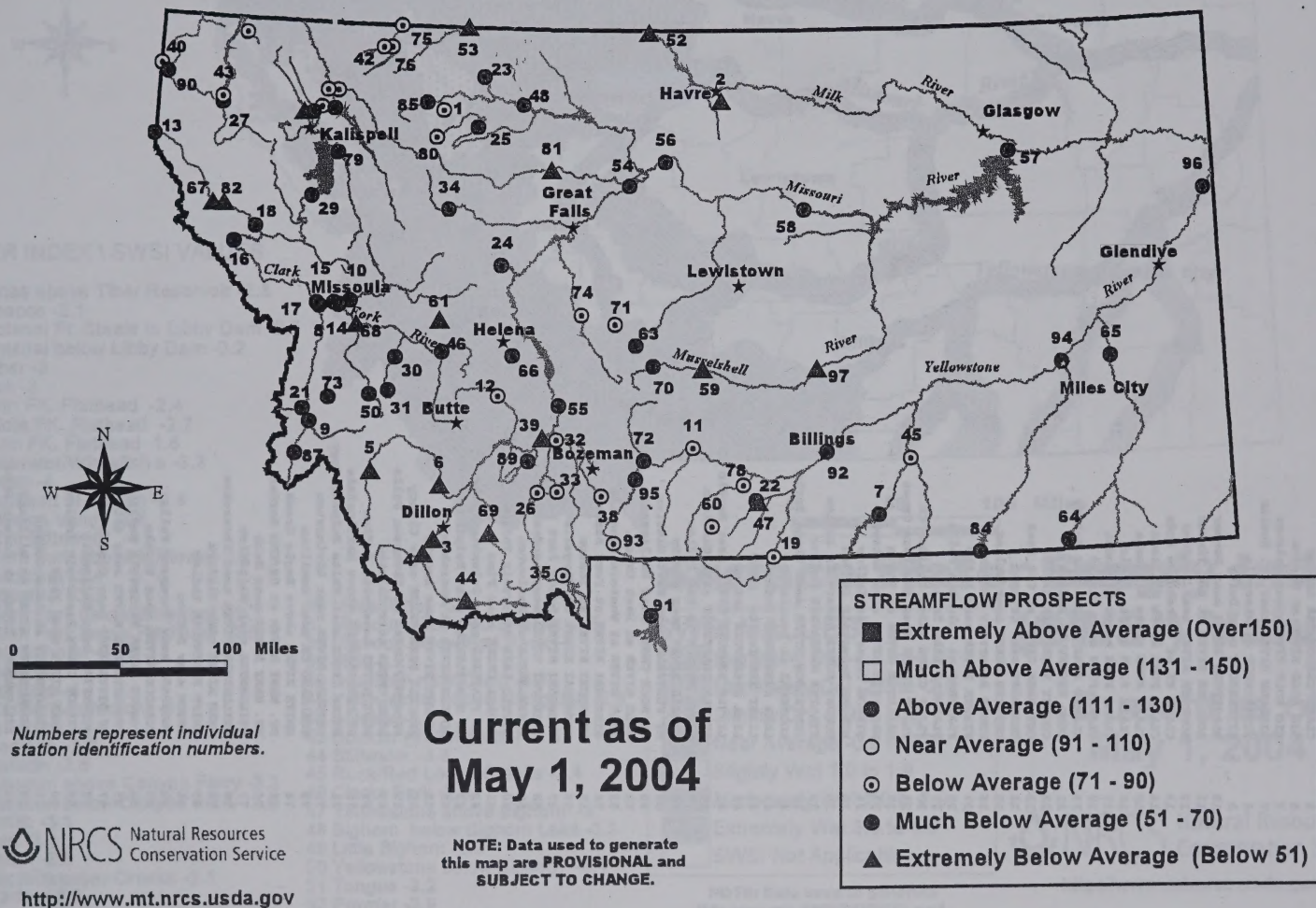
John Oiestad
632-5534

12/19/02

Mountain Snow Water Equivalent



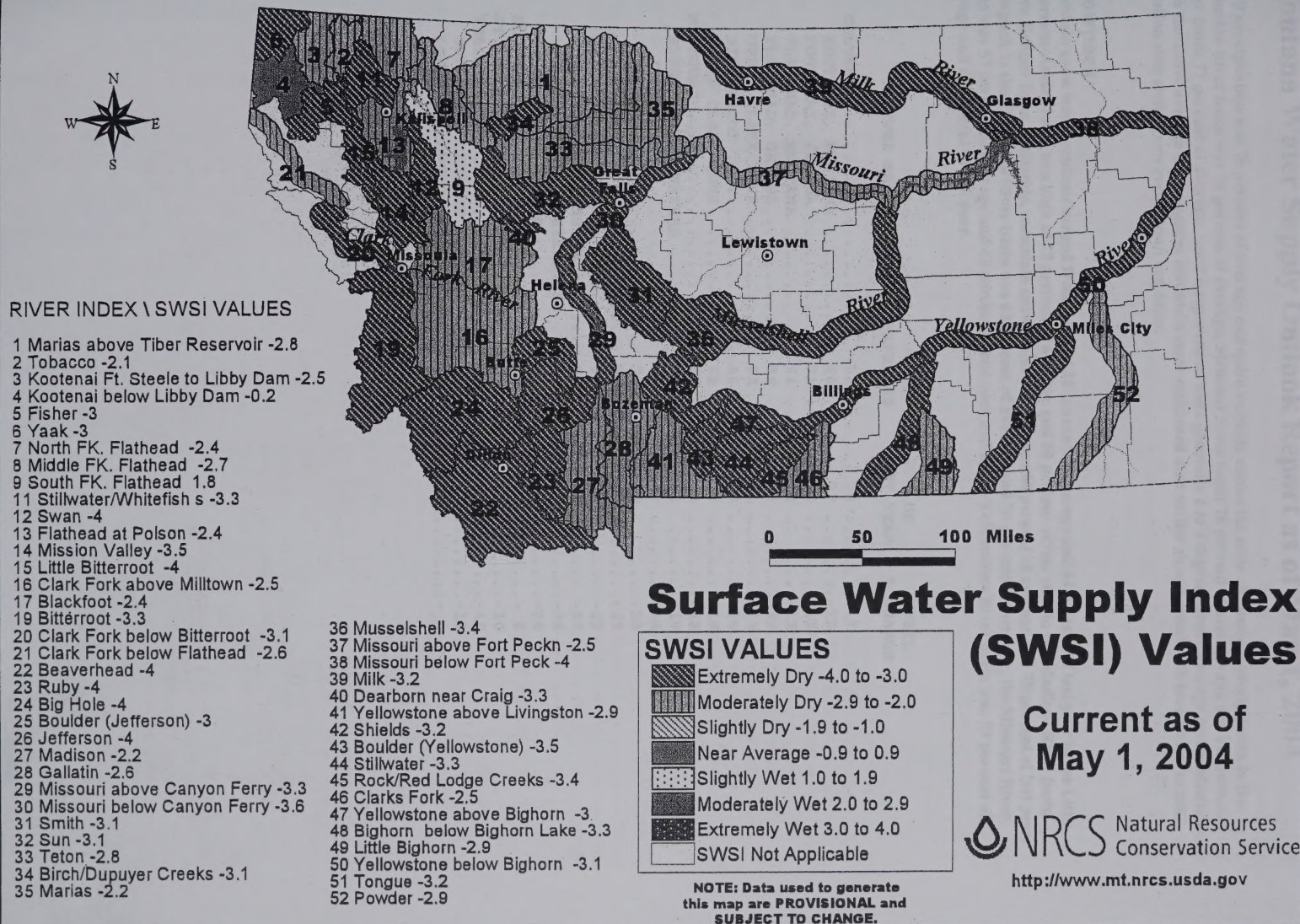
Streamflow Prospects for Montana



Map

Forecast Point

1	BADGER CREEK near Browning
2	BEAVER CREEK near Havre
3	BEAVERHEAD RIVER at Barretts
4	CLARK CANYON RES Inflow
5	BIG HOLE RIVER at Wisdom
6	BIG HOLE RIVER near Melrose
7	BIGHORN RIVER near St. Xavier
8	BITTERROOT at Missoula
9	BITTERROOT near Darby
10	BLACKFOOT RIVER near Bonner
11	BOULDER RIVER at Big Timber
12	BOULDER RIVER near Boulder
13	CLARK FK at Whitehorse Rgds
14	CLARK FORK above Milltown
15	CLARK FORK above Missoula
16	CLARK FORK at St. Regis
17	CLARK FORK below Missoula
18	CLARK FORK near Plains
19	CLARKS FORK RIVER near Belfry
21	COMO RESERVOIR Inflow
22	COONEY RESERVOIR Inflow
23	CUT BANK CREEK at Cut Bank
24	DEARBORN near Crag
25	DUPUYER CREEK near Valier
26	ENNIS Reservoir Inflow
27	FISHER RIVER near Libby
28	FLATHEAD at Columbia Falls
29	FLATHEAD Lake Inflow
30	FLINT CREEK below Boulder Ck
31	FLINT CREEK near Southern Cross
32	GALLATIN RIVER at Logan
33	GALLATIN RIVER near Gateway
34	GIBSON Reservoir Inflow
35	HEBGEN Reservoir Inflow
36	HUNGRY HORSE Reservoir Inflow
38	HYALITE RESERVOIR Inflow
39	JEFFERSON RIVER near Three Forks
40	KOOTENAI at Leonia
42	LAKE SHERBURNE Inflow
43	LIBBY RES Inflow
44	LIMA RESERVOIR Inflow
45	LITTLE BIGHORN RIVER near Hardin
46	LITTLE BLACKFOOT near Garrison
47	LOWER WILLOW CK RES Inflow
48	MARIAS RIVER near Shelby
49	MF FLATHEAD near West Glacier
50	MF ROCK CREEK near Philipsburg
52	MILK RIVER at East Cross.
53	MILK RIVER at Western Crossing
54	MISSOURI RIVER at Fort Benton
55	MISSOURI RIVER at Toston
56	MISSOURI RIVER at Virgelle
57	MISSOURI RIVER below Fort Peck
58	MISSOURI RIVER near Landusky
59	MUSSELSHELL at Harlowton
60	MYSTIC LAKE Reservoir Inflow
61	NEVADA CREEK near Finn
62	NF FLATHEAD near Columbia Falls
63	NF MUSSELSHELL near Delpine
64	POWDER RIVER at Moorehead
65	POWDER RIVER near Locate
66	PRICKLY PEAR CREEK near Clancy
67	PROSPECT CREEK at Thompson Falls
68	ROCK CREEK near Clinton
69	RUBY RIVER Reservoir Inflow
70	SV MUSSELSHELL above Martinsdale
71	SHEEP CREEK near White Sulphur Spgs.
72	SHIELDS RIVER near Livingston
73	SKALKAGO CK near Hamilton
74	SMITH RIVER above Eagle Creek
75	ST. MARY RIVER at US/CAN Border
76	ST. MARY RIVER near Babb
77	STILLWATER near Whitefish
78	STILLWATER RIVER near Absarokee
79	SWAN RIVER near Bigfork
80	SWIFT RESERVOIR Inflow
81	TETON near Dutton
82	THOMPSON near Thompson Falls
83	TORACCO RIVER near Eureka
84	TONGUE RIVER RESERVOIR Inflow
85	TWO MEDICINE RIVER near Browning
87	WF BITTERROOT near Conner
88	WHITEFISH near Kalispell
89	WILLOW CREEK Reservoir Inflow
90	YAAK RIVER near Troy
91	YELLOWSTONE at Lake Outlet
92	YELLOWSTONE RIVER at Billings
93	YELLOWSTONE RIVER at Corwin Spgs
94	YELLOWSTONE RIVER at Miles City
95	YELLOWSTONE RIVER near Livingston
96	YELLOWSTONE RIVER near Sidney



Montana Water Supply Outlook Report as of May 1, 2004

April precipitation was 75 percent of average and quite variable across the state . Mountain precipitation in the Columbia River basin was 78 percent of average, Missouri River basin 76 percent of average and the Yellowstone River basin 77 percent of average. April temperatures were generally 2 to 4 degrees above average across Montana. With the above average temperatures mountain snow continued melt earlier than normal with several low to mid elevation sites setting new record melt out dates.

Snowpack

Mountain snow water contents ranged from a low of 18 percent of average and 44 percent of last year in the Little Bitterroot-Ashley basin to a high of 78 percent of average and 99 percent of last year in the Madison River basin above Hebgen Lake. Statewide, mountain snow water content was 60 percent of average and 75 percent of last year. Snowpack in the Columbia River basin was 63 percent of average and 70 percent of last year, the Missouri River basin was 57 percent of average and 63 percent of last year and in the Yellowstone River basin was 59 percent of average and 67 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR	APRIL % CHANGE
COLUMBIA	63	70	-17
KOOTENAI, MONTANA	66	77	-18
KOOTENAI, CANADA	71	82	-12
FLATHEAD, MONTANA	64	78	-15
FLATHEAD, CANADA	65	64	-34
UPPER CLARK FORK	62	61	-15
BITTERROOT	56	50	-26
LOWER CLARK FORK	65	78	-18
MISSOURI	57	63	-22
MISSOURI HEADWATERS	60	62	-19
JEFFERSON	61	59	-16
MADISON	73	82	-13
GALLATIN	54	59	-25
MISSOURI MAINSTEM	54	68	-25
HEADWATERS MAINSTEM	59	62	-17
SMITH-JUDITH-MUSSELSHELL ..	62	67	-24
SUN-TETON-MARIAS	45	73	-28
ST. MARY	63	77	- 8
ST. MARY & MILK	62	77	-10
YELLOWSTONE	59	67	-10
UPPER YELLOWSTONE	52	54	-16
LOWER YELLOWSTONE	61	75	- 6

Precipitation

April, mountain and valley, precipitation across the state was 72 percent of average and 63 percent of last year, while the water year precipitation was 84 percent of average and 89 percent of last year. West of the Continental Divide, April mountain and valley precipitation was 79 percent of average and 84 percent of last year and the water year precipitation was 85 percent of average and 92 percent of last year. East of the Divide, April mountain and valley precipitation was 69 percent of average and 55 percent of last year and the water year precipitation was 84 percent of average and 87 percent of last year.

RIVER BASIN	APRIL % OF AVERAGE	WATER YEAR % OF AVERAGE
COLUMBIA	79	85
KOOTENAI	78	87
FLATHEAD	88	86
UPPER CLARK FORK	84	86
BITTERROOT	58	85
LOWER CLARK FORK	66	82
MISSOURI	76	88
JEFFERSON	75	84
MADISON	69	90
GALLATIN	68	83
MISSOURI MAINSTEM	93	93
SMITH-JUDITH-MUSSELSHELL	75	94
SUN-TETON-MARIAS	97	85
MILK	58	102
ST. MARY	84	82
YELLOWSTONE	70	79
UPPER YELLOWSTONE	62	77
LOWER YELLOWSTONE	73	80

Reservoirs

Major reservoir storage statewide was 88 percent of average and 92 percent of last year. Reservoir storage west of the Continental Divide was 156 percent of average and 101 percent of last year. East of the Continental Divide, reservoir storages were 70 percent of average and 88 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	156	101
KOOTENAI	191	99
FLATHEAD	138	104
UPPER CLARK FORK	99	95
BITTERROOT	125	89
LOWER CLARK FORK	113	96
MISSOURI	69	87
JEFFERSON	45	84
MADISON	101	91
GALLATIN	143	101
MISSOURI MAINSTEM	67	87
SMITH-JUDITH-MUSSELSHELL	44	90
SUN-TETON-MARIAS	105	86
MILK	68	63
ST. MARY	34	44
YELLOWSTONE	84	103
UPPER YELLOWSTONE	105	88
LOWER YELLOWSTONE	84	104

Streamflow

SEASONAL STREAMFLOW FORECASTS

Statewide, streamflows are forecast to average 49 and 60 percent. West of the Continental Divide, streamflows are forecast to average 49 and 57 percent and east of the Continental Divide, streamflows are forecast to average 47 and 61 percent of average.

Due to the snowpack reaching the seasonal maximum about a month earlier than average, streamflows this spring will crest about a month earlier than average. Streams will not exceed the snowmelt peaks without significant rainfall. With streamflow forecasts generally below to well below average, there will likely be significant surface water shortages in late spring and summer. Water users and water managers need to plan for possible water shortages greater than those experienced last year.

Below are River Basin streamflow forecast summaries for the period May 1 through July 31. THESE FORECASTS ASSUME NEAR NORMAL SPRING CONDITIONS AND DO NOT ACCOUNT FOR WELL BELOW AVERAGE (70% or less) OR WELL ABOVE AVERAGE (130% or more) SNOWMELT OR SPRING RAIN. Specific forecast probabilities are available in each individual River Basin Report.

RIVER BASIN	May-July THIS YEAR		May-July LAST YEAR	
	% OF AVERAGE		% OF AVERAGE	
COLUMBIA	49	to 57	74	to 84
KOOTENAI	58	to 67	76	to 84
FLATHEAD	55	to 61	61	to 68
UPPER CLARK FORK	42	to 52	77	to 93
BITTERROOT	45	to 55	90	to 101
LOWER CLARK FORK	48	to 54	72	to 78
MISSOURI	43	to 58	55	to 69
JEFFERSON	28	to 42	52	to 67
MADISON	73	to 80	73	to 80
GALLATIN	67	to 75	71	to 79
MISSOURI MAINSTEM	47	to 64	64	to 80
SMITH-JUDITH-MUSSELSHELL .	45	to 60	49	to 62
SUN-TETON-MARIAS	49	to 64	48	to 64
MILK	20	to 39	46	to 54
ST. MARY	73	to 80	76	to 83
YELLOWSTONE	56	to 68	65	to 76
UPPER YELLOWSTONE	60	to 70	75	to 86
LOWER YELLOWSTONE	50	to 64	50	to 61

NOTE: The MAY-JULY LAST YEAR % OF AVERAGE column above is last years forecasts on May 1, NOT of what actually occurred.

Peak Streamflow Forecasts

PEAK STREAMFLOW FORECASTS FOR UNREGULATED STREAMS ARE AS FOLLOWS:

WATERSHED	PEAK FLOW DATES
COLUMBIA RIVER BASIN	
Tobacco River near Eureka	Peaked April 15
Fisher River near Libby	Peaked April 15
Yaak River near Troy	Peaked April 15
North Fork Flathead River near Columbia Falls	May 11 - May 17
Middle Fork Flathead River near West Glacier	May 12 - May 18
Hungry Horse Reservoir inflow	May 13 - May 19
Lower Willow Reservoir inflow	Peaked April 27/28
Swan River near Big Fork.....	May 12 - May 18
Blackfoot River near Bonner	May 8 - May 14
Clark Fork above Missoula	May 16 - May 22
Clark Fork below Missoula	May 12 - May 18
Bitterroot River near Darby	May 10 - May 16
Nevada Creek near Finn	Peaked April 14/15
Middle Fork Rock Creek	May 15 - May 22
Clark Fork at St. Regis	May 10 - May 16
MISSOURI RIVER BASIN	
Clark Canyon Res. inflow	May 12 - May 18
Ruby Res. inflow	May 18 - May 24
Big Hole near Melrose	May 18 - May 25
Hebgen Res. inflow	May 16 - May 22
Inflow Middle Creek Reservoir	May 23 - May 29
Gallatin River near Gateway.....	May 25 - May 31
Gallatin near Logan	May 25 - May 31
Missouri at Toston	May 22 - May 28
Sheep Creek near White Sulphur Springs ...	May 7 - May 13
Smith River at Fort Logan	May 16 - May 22
Gibson Reservoir inflow	May 16 - May 22
Swift Reservoir inflow	May 13 - May 20
Beaver Creek near Havre	April 6 to April 12
YELLOWSTONE RIVER BASIN	
Yellowstone River at Lake Outlet	June 6 - June 12
Yellowstone River at Corwin Springs	May 23 - May 29
Yellowstone River at Livingston	May 23 - May 29
Boulder River near Big Timber	May 20 - May 26
Stillwater River near Absarokee	May 24 - May 30
Clarks Fork of Yellowstone near Belfry ...	May 18 - May 24
Yellowstone River at Billings	May 24 - May 30

Peak Streamflow Forecasts (continued)

	PEAK RANGE		PEAK RANGE		AVERAGE	
	IN		AS PERCENT OF		DAILY PEAK	
	DAILY CFS		AVERAGE		IN CFS	
COLUMBIA RIVER						
Tobacco R. nr Eureka....	Peaked at	853	.....	61	.....	1,388
Fisher Creek nr Libby...	Peaked at	1,350	.....	58	.....	2,334
Yaak River nr Troy	Peaked at	2,740	.....	47	.....	5,859
Blackfoot near Bonner...	3,200 to	5,600	.....	37 to 66	.....	8,512
Little Blackfoot near Garrison.....	Peaked at	192	.....	17	.....	1,115
Clark Fork ab Missoula..	5,000 to	9,000	.....	34 to 61	.....	14,698
Bitterroot near Darby ..	1,600 to	2,800	.....	29 to 51	.....	5,454
Skalkaho Cr nr Hamilton.	180 to	300	.....	35 to 58	.....	513
Clark Fork blw Missoula	7,000 to	16,000	.....	25 to 56	.....	28,482
Clark Fork at St. Regis	10,000 to	22,000	.....	28 to 61	.....	35,987
North Fork Flathead nr Columbia Falls	8,000 to	17,000	.....	40 to 86	.....	19,788
Middle Fork Flathead nr West Glacier	9,000 to	14,500	.....	47 to 76	.....	19,126
Hungry Horse Res Inflow.	7,000 to	13,000	.....	41 to 75	.....	17,281
Stillwater nr Whitefish.	700 to	1,200	.....	42 to 72	.....	1,673
Inflow L. Willow Cr. Res. nr Phillipsburg	20 to	120	.....	9 to 56	.....	214
Swan at Big Fork.....	1,800 to	3,400	.....	36 to 69	.....	4,929
Nevada Creek near Finn..	Peaked at	36	.....	12	.....	301
Middle Fork Rock Creek near Philipsburg.....	280 to	480	.....	34 to 58	.....	821
Thompson River near Thompson Falls.....	600 to	1,200	.....	29 to 59	.....	2,047
Prospect Creek at Thompson Falls.....	500 to	900	.....	41 to 74	.....	1,219
MISSOURI RIVER						
Big Hole at Wisdom.....	100 to	600	.....	9 to 38	.....	1,566
Big Hole near Melrose ..	600 to	3,000	.....	8 to 42	.....	7,139
Inflow Clark Canyon Dam.	150 to	800	.....	13 to 67	.....	1,191
Inflow Ruby Reservoir ..	100 to	500	.....	9 to 47	.....	1,055
Inflow Hebgen Reservoir.	1,800 to	3,200	.....	47 to 84	.....	3,832
Inflow Middle Creek Reservoir.....	100 to	200	.....	38 to 76	.....	262
Gallatin near Gateway ..	2,600 to	3,800	.....	50 to 73	.....	5,232
Gallatin near Logan	1,700 to	3,800	.....	31 to 69	.....	5,468
Boulder R. near Boulder..	300 to	700	.....	25 to 59	.....	1,183
Jefferson nr Three Forks.	200 to	2,800	.....	2 to 29	.....	9,626
Missouri at Toston	5,500 to	12,000	.....	30 to 66	.....	18,209
St.Mary R. at US Border.	2,800 to	4,300	.....	66 to 103	.....	4,188
Badger Cr. nr Browning..	600 to	1,200	.....	35 to 71	.....	1,691
Two Medicine River near Browning.....	700 to	1,500	.....	18 to 39	.....	3,838
Cut Bank Cr. at Cut Bank	200 to	800	.....	16 to 63	.....	1,275
Marias near Shelby	1,000 to	3,200	.....	14 to 46	.....	6,980
Inflow Gibson Reservoir..	2,400 to	4,800	.....	31 to 62	.....	7,697
Inflow Swift Reservoir..	300 to	700	.....	26 to 60	.....	1,162
Sheep Creek near White Sulphur Springs	90 to	170	.....	47 to 89	.....	190
S. Fk. Musselshell above Martinsdale	50 to	400	.....	4 to 35	.....	1,133
N. Fk. Musselshell Near Delpine.....	5 to	40	.....	10 to 82	.....	49
Musselshell at Harlowton	50 to	400	.....	4 to 31	.....	1,293
Inflow Sherburne.....	600 to	1,100	.....	35 to 65	.....	1,694
Prickly Pear Creek near Clancy.....	50 to	120	.....	23 to 54	.....	221
Dearborn R. nr Craig....	300 to	1,000	.....	18 to 59	.....	1,697

Peak Streamflow Forecasts (continued)

	PEAK RANGE IN DAILY CFS	PEAK RANGE AS PERCENT OF AVERAGE	AVERAGE DAILY PEAK IN CFS
YELLOWSTONE RIVER			
Yellowstone Lake outlet.	2,000 to 3,600	36 to 66	5,487
Yellowstone at Corwin Springs	8,500 to 13,500	48 to 77	17,570
Yellowstone at Livingston	9,000 to 16,000	44 to 79	20,364
Shields R. nr Livingston	300 to 900	15 to 46	1,940
Boulder near Big Timber	1,600 to 3,200	32 to 63	5,051
Stillwater nr Absarokee	2,800 to 4,800	46 to 78	6,129
Mystic Lake Inflow.....	450 to 800	47 to 84	948
Inflow Conney Reservoir.	50 to 300	6 to 36	831
Clarks Fork near Belfry	3,600 to 6,400	60 to 99	7,554
Yellowstone at Billings	17,000 to 31,000	41 to 74	41,617
L. Bighorn nr Hardin....	400 to 1,000	21 to 53	1,895
Powder R. at Moorehead..	300 to 2,500	7 to 57	4,374

Provisional data values and are subject to revision.

NOTE: The low number in the flow range represents the maximum daily flow that would be expected to occur with little rainfall during the peak snowmelt period. The high number in the flow range could be expected with moderate amounts of rain about the same time as maximum snowmelt runoff is occurring.

Surface Water Supply Index

The Surface Water Supply Index (SWSI) is an indicator of surface water supply conditions for the spring and summer months. Water users that rely on mountain precipitation can use the index to evaluate seasonal surface water supplies. The SWSI accounts for mountain snowpack, mountain precipitation, streamflow, reservoir storage, and soil moisture.

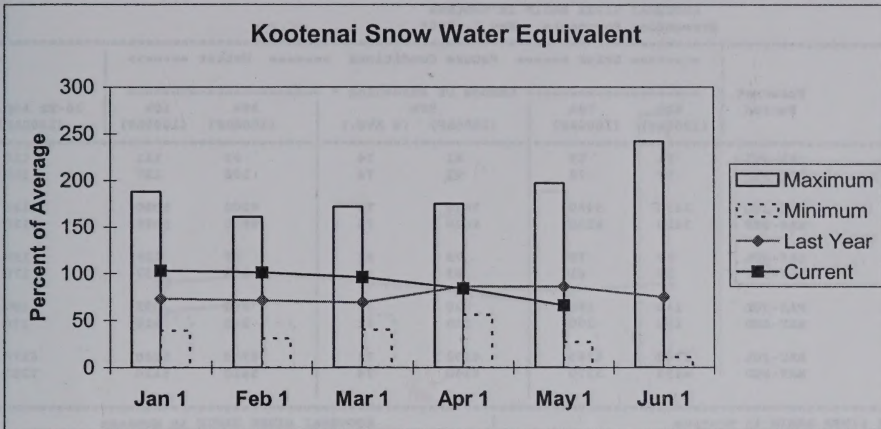
<u>SWSI RATING</u>
+3.0 to +4.0
+2.0 to +3.0
+1.0 to +2.0
-1.0 to +1.0
-1.0 to -2.0
-2.0 to -3.0
-3.0 to -4.0

<u>SURFACE WATER CONDITION</u>
Extremely Wet
Moderately Wet
Slightly Wet
Near Average
Slightly Dry
Moderately Dry
Extremely Dry

<u>This Year</u>	<u>Last Year</u>	<u>Basin</u>
<u>SWSI</u>	<u>SWSI</u>	
-2.1	-1.2	Tobacco River
-2.5	-1.4	Kootenai Ft. Steele to Libby Dam
-0.2	+1.5	Kootenai River below Libby Dam
-3.0	-1.7	Fisher River
-3.0	-0.9	Yaak River
-2.4	-1.7	North Fork Flathead River
-2.7	-2.7	Middle FORK Flathead River
+1.8	+1.6	South Fork Flathead River
-1.9	-1.4	Flathead River at Columbia Falls
-3.3	-2.9	Stillwater/Whitefish Rivers
-4.0	-2.6	Swan River
-2.4	-2.2	Flathead River at Polson
-3.5	-2.6	Mission Valley
-4.0	-2.6	Little Bitterroot River
-2.5	+0.5	Clark Fork River above Milltown
-2.4	-0.9	Blackfoot River
-3.3	+0.4	Bitterroot River
-3.1	+0.3	Clark Fork River below Bitterroot River
-2.6	-1.3	Clark Fork River below Flathead River
-4.0	-3.5	Beaverhead River
-4.0	-2.6	Ruby River
-4.0	-0.6	Big Hole River
-3.0	+0.3	Boulder River (Jefferson)
-4.0	-0.9	Jefferson River
-2.2	-0.5	Madison River
-2.6	-1.5	Gallatin River
-3.3	-1.4	Missouri River above Canyon Ferry
-3.6	-1.0	Missouri River below Canyon Ferry
-3.1	-0.6	Smith River
-3.1	-2.8	Sun River
-2.8	-1.4	Teton River
-3.1	-1.1	Birch/Dupuyer Creeks
-2.8	-2.3	Marias River above Tiber
-2.2	+0.1	Marias River below Tiber
-3.4	-2.7	Musselshell River
-2.5	+0.3	Missouri River above Ft. Peck
-4.0	-2.3	Missouri River below Ft. Peck
-3.2	-0.9	Milk River
-3.3	+1.6	Dearborn River near Craig
-2.9	-0.8	Yellowstone River above Livingston
-3.2	-1.6	Shields River
-3.5	-1.9	Boulder River (Yellowstone)
-3.3	-1.3	Stillwater River
-3.4	+1.4	Rock/Red Lodge Creeks
-2.5	-1.8	Clarks Fork River
-3.0	-1.2	Yellowstone River above Bighorn River
-3.3	-3.6	Bighorn River below Bighorn Lake
-2.9	-0.7	Little Bighorn River
-3.1	-2.3	Yellowstone River below Bighorn River
-3.2	-2.1	Tongue River
-2.9	-2.4	Powder River

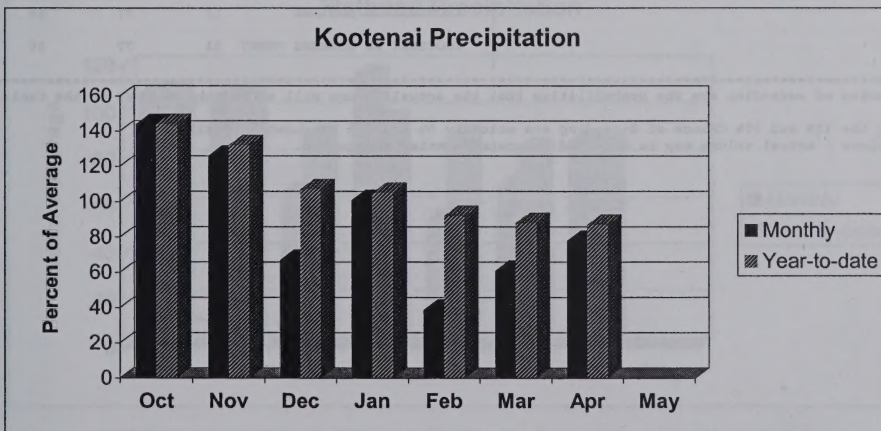
Kootenai River Basin in Montana

Snowpack in the Kootenai River Basin were well below average and decreased 16 percent from April 1. Snow water content was 66 percent of average and 77 percent of last year.



January maximum swe was established in 1997 and minimum was in 1977; February maximum swe was in 1997 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1974 and minimum swe was in 2001; May maximum swe was in 1974 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during April was 74 percent of average and 91 percent of last year. Valley precipitation during April was 126 percent of average and 160 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2003, was 87 percent of average and 99 percent of last year.



Lake Koocanusa storage was 191 percent of average and 99 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.1 in the Tobacco River; -2.5 in the Kootenai Ft. Steele to Libby Dam; -0.2 in the Kootenai River below Libby Dam; -3.0 in the Fisher River; and -3.0 in the Yaak River.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - May 1, 2004

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90% (1000AF)		50% (1000AF) (% AVG.)		30% (1000AF)		
		70% (1000AF)				10% (1000AF)		
TOBACCO RIVER nr Eureka	MAY-JUL	51	69	81	74	93	111	110
	MAY-SEP	57	78	92	74	106	127	124
LIBBY RES Inflow (1,2)	MAY-JUL	2630	3460	3830	75	4200	5030	5120
	MAY-SEP	3420	4250	4620	76	4990	5820	6120
FISHER RIVER nr Libby	MAY-JUL	29	59	79	51	99	129	155
	MAY-SEP	29	61	83	49	105	137	170
YAAK RIVER nr Troy	MAY-JUL	144	190	220	63	250	295	350
	MAY-SEP	150	200	230	62	260	310	370
KOOTENAI at Leonia (1,2)	MAY-JUL	3740	4260	4500	73	4740	5260	6170
	MAY-SEP	4490	5070	5340	74	5610	6190	7250

KOOTENAI RIVER BASIN in Montana
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage ***		
		This Year	Last Year	Avg
LAKE KOOCANUSA	5748.0	3714.0	3765.0	1948.9

KOOTENAI RIVER BASIN in Montana
Watershed Snowpack Analysis - May 1, 2004

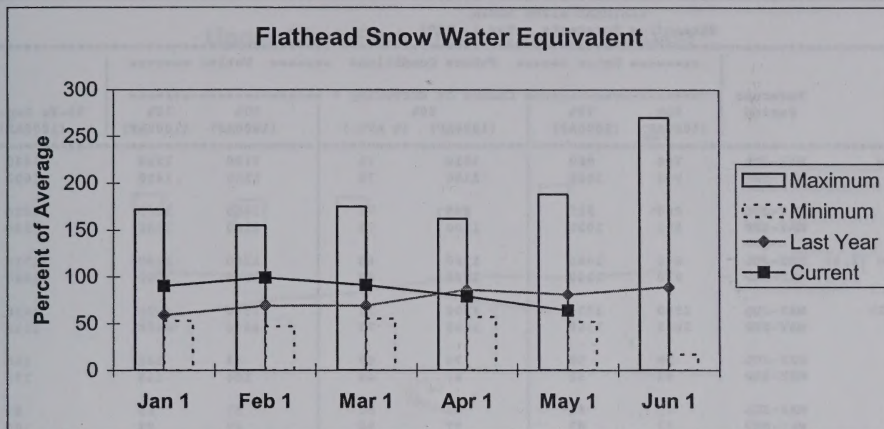
Watershed	Number of Data Sites	This Year as % of	
		Last Yr	Average
KOOTENAY in CANADA	12	79	67
KOOTENAI MAINTSTEM	4	76	70
TOBACCO	3	74	68
FISHER	5	93	67
YAAK	8	71	60
KOOTENAI in MONTANA	19	77	66
KOOTENAI ab BONNERS FERRY	31	77	66

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

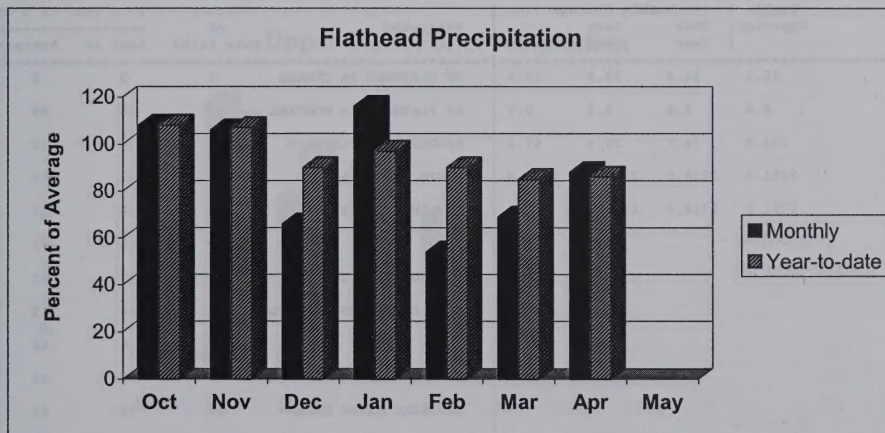
Flathead River Basin

Snowpack in the Flathead River Basin were well below average and decreased 15 percent from April 1. Snow water content was 64 percent of average and 78 percent of last year.



January maximum swe was established in 1997 and minimum was in 2001; February maximum swe was in 1972 and minimum was in 2001; March maximum swe was in 1972 and minimum was in 2001; April maximum swe was in 1972 and minimum was in 2001; May maximum swe was in 1972 and minimum was in 1992; and June maximum swe was in 1974 and minimum was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during April was 85 percent of average and 115 percent of last year. Valley precipitation during April was 131 percent of average and 165 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2003, was 86 percent of average and 103 percent of last year.



Combined Camas reservoir storage was 39 percent of average and 54 percent of last year; Lower Jocko Lake was 200 percent of average and 78 percent of average; combined Mission Valley reservoir storage was 74 percent of average and 104 percent of last year; Hungry Horse storage was 145 percent of average and 106 percent of last year; and Flathead Lake storage was 131 percent of average and 101 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.4 in the North Fork Flathead River; -2.7 in the Middle Fork Flathead River; +1.8 in the South Fork Flathead River; -1.9 in the Flathead River at Columbia Falls; -3.3 in the Stillwater/Whitefish Rivers; -4.0 in the Swan River; -2.4 in the Flathead River at Polson; -3.5 in the Mission Valley; and -4.0 in the Little Bitterroot River.

FLATHEAD RIVER BASIN
Streamflow Forecasts - May 1, 2004

		<<----- Drier ----- Future Conditions ----- Wetter ----->>						
Forecast Point	Forecast Period	90% (1000AF)		50% (1000AF) (% AVG.)		30% (1000AF)		30-Yr Avg. (1000AF)
		70% (1000AF)				10% (1000AF)		
NF FLATHEAD nr Columbia Falls	MAY-JUL	790	920	1010	71	1100	1230	1420
	MAY-SEP	900	1050	1150	72	1250	1400	1600
MF FLATHEAD nr West Glacier	MAY-JUL	805	915	985	71	1055	1165	1390
	MAY-SEP	895	1020	1100	71	1180	1300	1540
HUNGRY HORSE Reservoir Inflow (1,2)	MAY-JUL	840	1060	1160	68	1260	1480	1710
	MAY-SEP	930	1160	1260	69	1360	1590	1840
FLATHEAD at Columbia Falls (2)	MAY-JUL	2580	3010	3300	71	3590	4020	4630
	MAY-SEP	2880	3360	3680	72	4000	4480	5110
STILLWATER nr Whitefish	MAY-JUL	28	55	74	49	93	120	150
	MAY-SEP	31	62	83	49	104	135	170
WHITEFISH nr Kalispell	MAY-JUL	29	41	49	56	57	69	88
	MAY-SEP	33	47	57	56	67	81	101
ASHLEY CREEK nr Marion (2)	MAY-JUL	0.78	1.15	1.40	31	2.20	3.40	4.50
	MAY			1.10	39			2.80
SWAN RIVER nr Bigfork	MAY-JUL	235	265	290	62	315	345	470
	MAY-SEP	265	305	335	61	365	405	550
Flathead Lake inflow (1,2)	MAY-JUL	3040	3550	3780	71	4010	4520	5320
	MAY-SEP	3250	3890	4180	72	4470	5110	5840

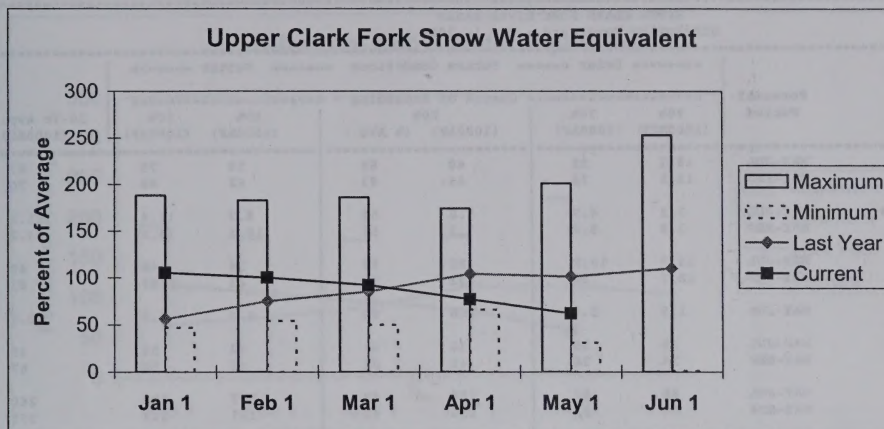
FLATHEAD RIVER BASIN Reservoir Storage (1000 AF) - End of April					FLATHEAD RIVER BASIN Watershed Snowpack Analysis - May 1, 2004			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CAMAS (4)	45.2	11.8	21.9	29.9	NF FLATHEAD in CANADA	0	0	0
LOWER JOCKO LAKE	6.4	1.4	1.8	0.7	NF FLATHEAD in MONTANA	8	78	69
MISSION VALLEY (8)	100.0	34.7	33.4	47.1	MIDDLE FORK FLATHEAD	5	76	59
HUNGRY HORSE	3451.0	2828.0	2668.0	1954.8	SOUTH FORK FLATHEAD	7	81	68
FLATHEAD LAKE	1791.0	1218.0	1206.0	931.9	STILLWATER-WHITEFISH	10	88	66
					SWAN	8	85	73
					MISSION VALLEY	5	77	65
					LITTLE BITTERROOT-ASHLEY	6	44	11
					JOCKO	5	74	66
					FLATHEAD in MONTANA	39	78	64
					FLATHEAD RIVER BASIN	39	78	64

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) - The value is natural volume - actual volume may be affected by upstream water management.

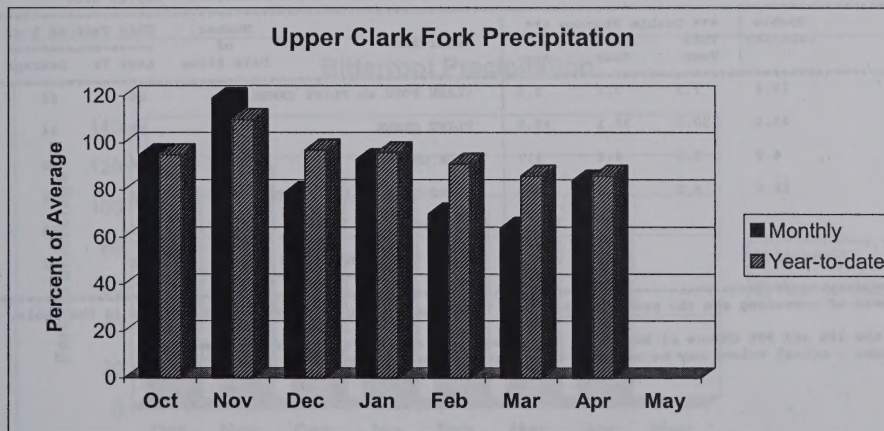
Upper Clark Fork River Basin

Snowpack in the Upper Clark Fork River Basin were well below average and decreased 15 percent from April 1. Snow water content was 62 percent of average and 61 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum was in 1994; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during April was 82 percent of average and 70 percent of last year. Valley precipitation during April was 113 percent of average and 106 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2003, was 86 percent of average and 84 percent of last year.



East Fork Reservoir was 73 percent of average and 101 percent of last year; Georgetown Lake was 113 percent of average and 100 percent of last year; Lower Willow Creek storage was 89 percent of average and 75 percent of last year; and Nevada Creek storage was 92 percent of average and 87 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.5 in the Clark Fork River above Milltown; and -2.4 in the Blackfoot River.

UPPER CLARK FORK RIVER BASIN
Streamflow Forecasts - May 1, 2004

Forecast Point	Forecast Period	<----- Drier ----- Future Conditions ----- Wetter ----->						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
LITTLE BLACKFOOT nr Garrison	MAY-JUL	18.1	31	40	64	54	75	63
	MAY-SEP	16.1	33	44	63	62	88	70
FLINT CREEK nr Southern Cross	MAY-JUL	3.2	4.9	6.0	51	8.2	11.4	11.7
	MAY-SEP	3.8	5.9	7.3	51	10.1	14.2	14.2
FLINT CREEK blw Boulder Ck	MAY-JUL	10.7	19.2	25	52	34	48	48
	MAY-SEP	18.2	26	32	51	43	59	63
LOWER WILLOW CK RES Inflow	MAY-JUL	1.5	2.4	3.0	29	4.6	6.9	10.2
MF ROCK CREEK nr Philipsburg	MAY-JUL	20	30	36	61	42	52	59
	MAY-SEP	24	34	41	61	48	58	67
ROCK CREEK nr Clinton	MAY-JUL	45	89	118	49	147	190	240
	MAY-SEP	56	103	135	49	167	213	275
CLARK FORK abv Milltown	MAY-JUL	116	205	265	52	360	495	510
	MAY-SEP	186	266	320	53	425	575	610
NEVADA CREEK nr Helmville	MAY-JUL	2.3	3.7	4.6	33	6.9	10.3	13.9
BLACKFOOT RIVER nr Bonner	MAY-JUL	245	355	425	63	495	605	675
	MAY-SEP	290	400	480	63	560	670	765
CLARK FORK abv Missoula	MAY-JUL	395	565	675	57	785	955	1190
	MAY-SEP	505	680	800	58	920	1100	1370

UPPER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage ***		
		This Year	Last Year	Avg
EAST FORK ROCK CREEK	15.6	7.2	7.1	9.8
GEORGETOWN LAKE	31.0	30.0	30.1	26.5
LOWER WILLOW CREEK	4.9	3.3	4.4	3.7
NEVADA CREEK	12.6	9.2	10.6	10.0

UPPER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - May 1, 2004

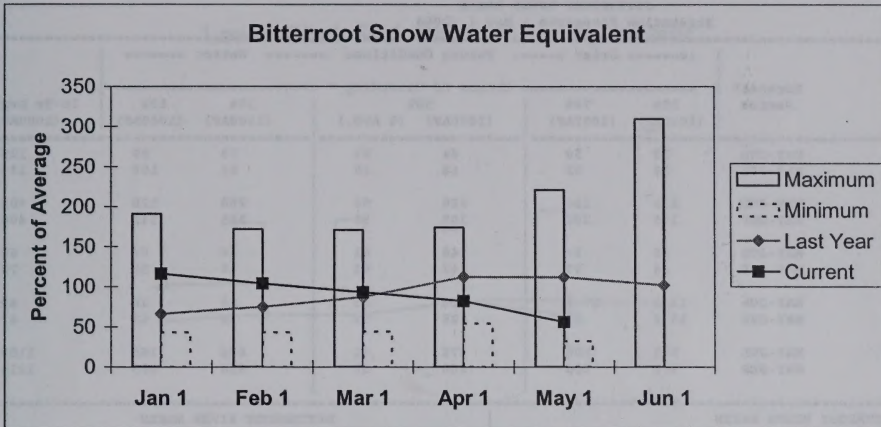
Watershed	Number of Data Sites	This Year as % of	
		Last Yr	Average
CLARK FORK ab FLINT CREEK	13	66	66
FLINT CREEK	6	38	44
ROCK CREEK	5	56	63
CLARK FORK ab BLACKFOOT	21	55	58
BLACKFOOT	15	65	60
UPPER CLARK FORK BASIN	34	61	62

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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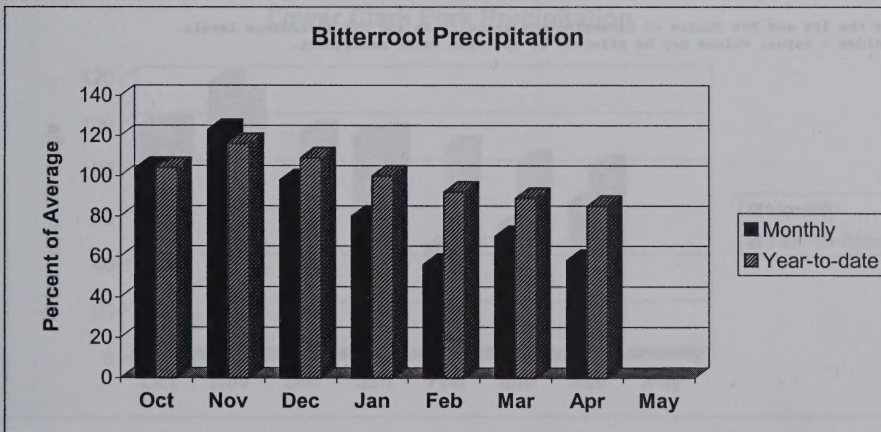
Bitterroot River Basin

Snowpack in the Bitterroot River Basin were well below average and decreased 26 percent from April 1. Snow water content was 56 percent of average and 50 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 2001; May maximum swe was in 1972 and minimum swe was in 1987; and June maximum swe was 1972 and 1974 and minimum swe was in 1987, 1992, 1994, and 2001. Average is for the period 1971 through 2000.

Mountain precipitation during April was 55 percent of average and 60 percent of last year. Valley precipitation during April was 72 percent of average and 43 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2003, was 85 percent of average and 78 percent of last year.



Painted Rocks Lake storage was 146 percent of average and 81 percent of last year and Como storage was 106 percent of average and 99 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.3 in the Bitterroot River.

BITTERROOT RIVER BASIN
Streamflow Forecasts - May 1, 2004

Forecast Point	Forecast Period	<<----- Drier ----- Future Conditions ----- Wetter ----->>						30-Yr Avg (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
WF BITTERROOT nr Conner (2)	MAY-JUL	29	50	64	51	78	99	125
	MAY-SEP	28	52	68	49	84	108	138
BITTERROOT nr Darby	MAY-JUL	120	180	220	54	260	320	405
	MAY-SEP	145	205	245	53	285	345	460
COMO RESERVOIR Inflow	MAY-JUL	26	34	40	61	46	54	66
	MAY-SEP	28	37	43	61	49	58	70
SKALKAHO CK nr Hamilton	MAY-JUL	11.2	17.6	22	55	29	38	40
	MAY-SEP	15.6	21	25	53	32	43	47
BITTERROOT at Missoula	MAY-JUL	385	500	575	52	650	765	1100
	MAY-SEP	400	520	600	50	680	805	1210

BITTERROOT RIVER BASIN
Reservoir Storage (1000 AF) - End of April

BITTERROOT RIVER BASIN
Watershed Snowpack Analysis - May 1, 2004

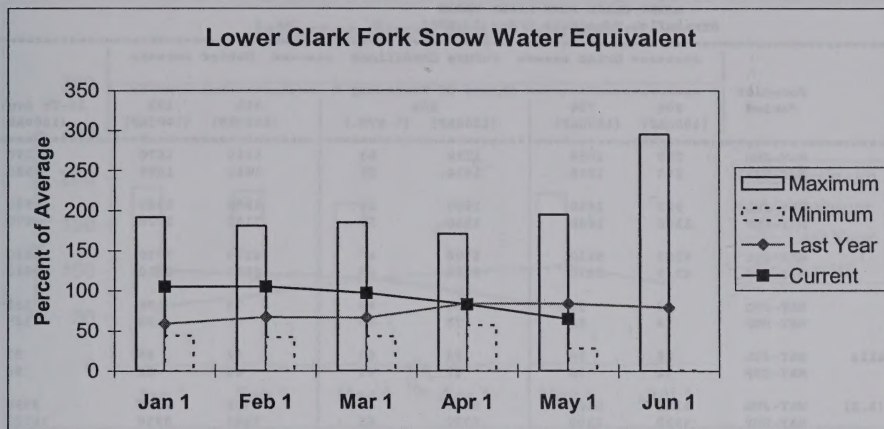
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
PAINTED ROCKS LAKE	31.7	25.0	30.7	17.1	WEST FORK BITTERROOT	3	49	57
COMO	align="right">34.9	align="right">21.5	align="right">21.7	align="right">20.2	EAST SIDE BITTERROOT	5	52	60
					WEST SIDE BITTERROOT	3	55	58
					BITTERROOT RIVER BASIN	10	50	56

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) - The value is natural volume - actual volume may be affected by upstream water management.

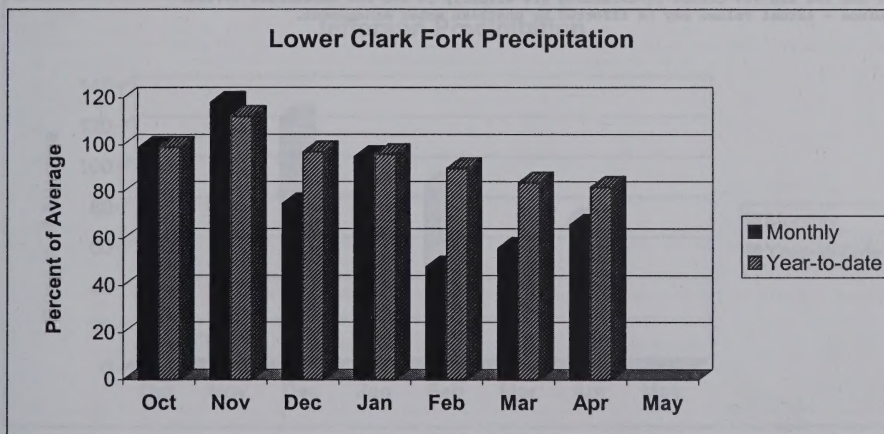
Lower Clark Fork River Basin

Snowpack in the Lower Clark Fork River Basin were well below average and decreased 18 percent from April 1. Snow water content was 65 percent of average and 78 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1972 and minimum swe was in 1981; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1977. Average is for the period 1971 through 2000.

Mountain precipitation during April was 64 percent of average and 78 percent of last year. Valley precipitation during April was 75 percent of average and 93 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2003, was 82 percent of average and 90 percent of last year.



Noxon Rapids storage was 113 percent of average and 96 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.1 in the Clark Fork River below Bitterroot River and -2.6 in the Clark Fork River below Flathead River.

LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - May 1, 2004

		<<----- Drier -----		Future Conditions -----		Wetter ----->>		
Forecast Point	Forecast Period	-----		Chance Of Exceeding *		-----		30-Yr Avg (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
CLARK FORK blw Missoula	MAY-JUL	790	1050	1230	54	1410	1670	2290
	MAY-SEP	950	1230	1420	55	1610	1890	2580
CLARK FORK at St. Regis (1)	MAY-JUL	980	1460	1680	56	1900	2380	2980
	MAY-SEP	1140	1680	1930	57	2180	2720	3370
CLARK FORK nr Plains (1,2)	MAY-JUL	4180	5230	5700	66	6170	7220	8630
	MAY-SEP	4730	5890	6420	67	6950	8110	9610
THOMPSON nr Thompson Falls	MAY-JUL	49	58	64	40	78	98	159
	MAY-SEP	59	68	73	40	87	108	185
PROSPECT CREEK at Thompson Falls	MAY-JUL	28	34	38	44	42	48	87
	MAY-SEP	32	38	42	44	46	52	96
CLARK FK at Whitehorse Rpds (1,2)	MAY-JUL	4320	5560	6130	64	6700	7940	9590
	MAY-SEP	4910	6300	6930	65	7560	8950	10700

LOWER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of April

LOWER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - May 1, 2004

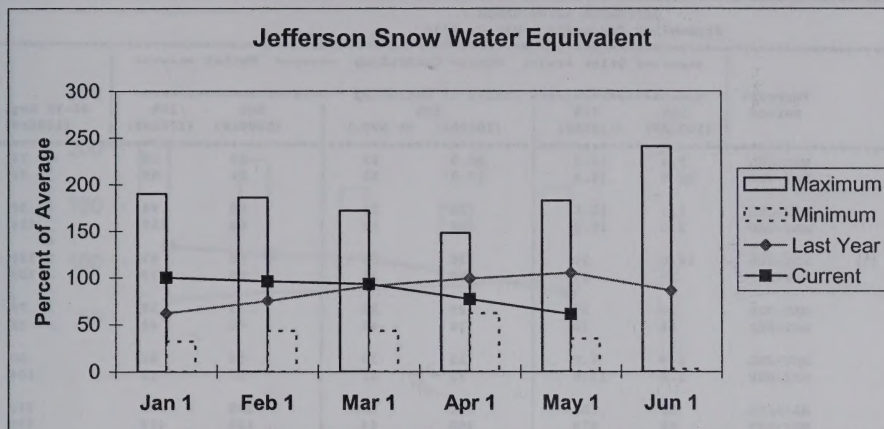
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
NOXON RAPIDS	335.0	307.9	319.7	272.3	LOWER CLARK FORK BASIN	12	78	65

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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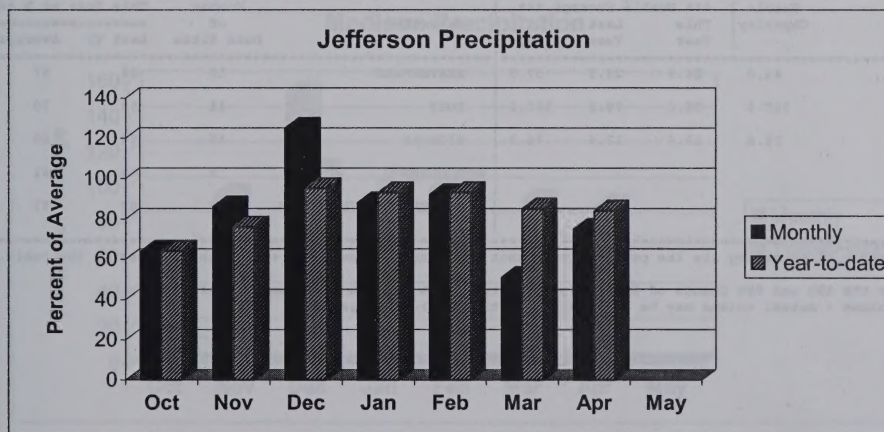
Jefferson River Basin

Snowpack in the Jefferson River Basin were well below average and decreased 16 percent from April 1. Snow water content was 61 percent of average and 59 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1982 and minimum in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during April was 74 percent of average and 53 percent of last year. Valley precipitation during April was 82 percent of average and 37 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2003, was 84 percent of average and 83 percent of last year.



Lima storage was 43 percent of average and 87 percent of last year; Clark Canyon storage was 35 percent of average and 80 percent of last year; and Ruby River storage was 93 percent of average and 90 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -4.0 in the Beaverhead River; -4.0 in the Ruby River; -4.0 in the Big Hole River; -3.0 in the Boulder River; and -4.0 in the Jefferson River as a whole.

JEFFERSON RIVER BASIN
Streamflow Forecasts - May 1, 2004

Forecast Point	Forecast Period	<<----- Drier ----- Future Conditions ----- Wetter ----->>				30-Yr Avg. (1000AF)		
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)		30% (1000AF)	10% (1000AF)
LIMA RESERVOIR Inflow (2)	MAY-JUL	9.8	13.3	16.0	23	30	50	70
	MAY-SEP	10.9	14.8	17.0	22	34	59	78
CLARK CANYON Inflow (2)	MAY-JUL	1.8	12.6	20	22	50	94	90
	MAY-SEP	2.0	16.0	26	22	64	119	116
BEAVERHEAD RIVER at Barretts (2)	MAY-JUL	14.0	28	38	32	48	62	120
	MAY-SEP	27	41	50	33	59	73	153
RUBY RIVER Reservoir Inflow	MAY-JUL	20	25	29	39	33	38	74
	MAY-SEP	28	34	38	42	42	48	91
BIG HOLE RIVER at Wisdom	MAY-JUL	1.9	7.8	31	33	54	88	95
	MAY-SEP	2.0	11.0	34	33	57	92	104
BIG HOLE RIVER nr Melrose	MAY-JUL	56	155	220	42	285	385	520
	MAY-SEP	69	175	250	44	325	430	575
BOULDER RIVER nr Boulder	MAY-JUL	11.3	34	50	74	66	89	68
	MAY-SEP	13.5	39	56	75	73	99	75
WILLOW CREEK Reservoir Inflow	MAY-JUL	0.8	4.2	8.1	53	12.0	18.2	15.2
	MAY-SEP	0.9	4.6	9.3	53	14.2	21	17.5
JEFFERSON RIVER nr Three Forks (2)	MAY-JUL	18.0	100	220	37	340	520	600
	MAY-SEP	20	105	235	35	365	560	680

JEFFERSON RIVER BASIN
Reservoir Storage (1000 AF) - End of April

JEFFERSON RIVER BASIN
Watershed Snowpack Analysis - May 1, 2004

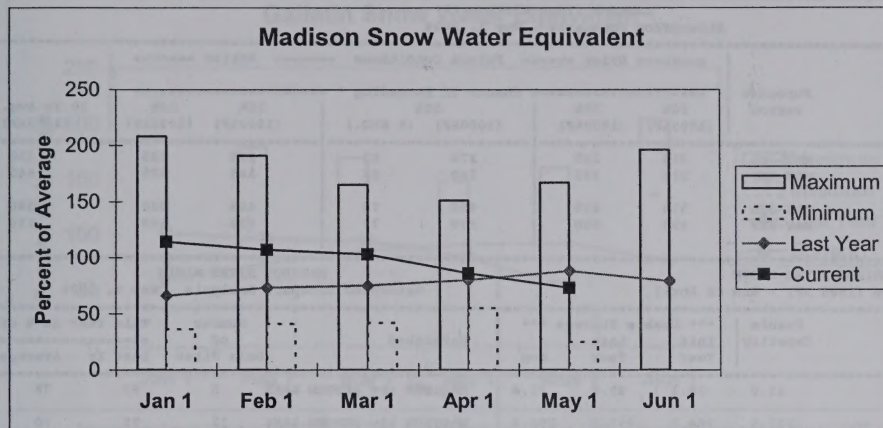
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of Last Yr Average	
		This Year	Last Year	Avg			Last Yr	Average
LIMA	84.0	24.9	28.5	57.5	BEAVERHEAD	16	56	57
CLARK CANYON	255.6	56.0	70.3	160.6	RUBY	11	69	70
RUBY RIVER	38.8	33.8	37.6	36.3	BIGHOLE	16	54	60
					BOULDER	8	62	61
					JEFFERSON RIVER BASIN	42	59	61

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) - The value is natural volume - actual volume may be affected by upstream water management.

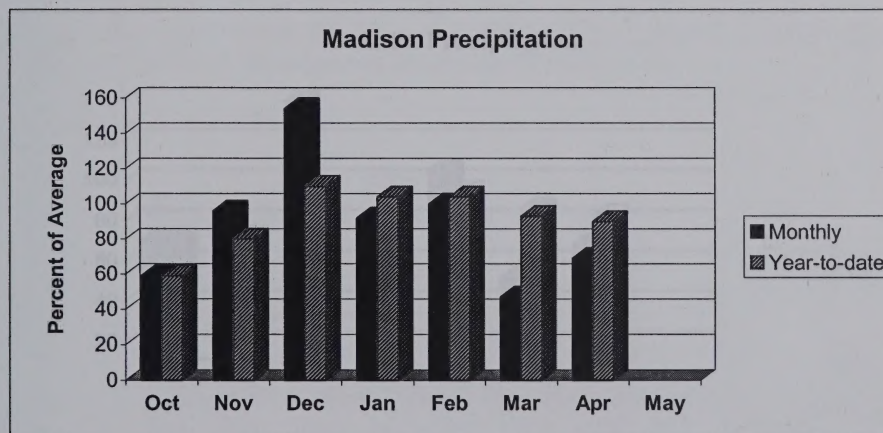
Madison River Basin

Snowpack in the Madison River Basin were below average and decreased 13 percent from April 1. Snow water content was 73 percent of average and 82 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1997 and minimum swe was in 1977; and June maximum swe was in 1995 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April was 69 percent of average and 47 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2003, was 90 percent of average and 99 percent of last year.



Ennis Lake storage was 83 percent of average and 95 percent of last year and Hebgen Lake storage was 104 percent of average and 91 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.2 for the Madison River.

MADISON RIVER BASIN
Streamflow Forecasts - May 1, 2004

		<<----- Drier ----- Future Conditions ----- Wetter ----->>						
Forecast Point	Forecast Period	Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
HEBGEN Reservoir Inflow	MAY-JUL	215	245	270	82	295	325	330
	MAY-SEP	295	335	360	82	385	425	440
ENNIS Reservoir Inflow (2)	MAY-JUL	370	415	450	78	485	530	580
	MAY-SEP	490	550	590	79	630	690	750

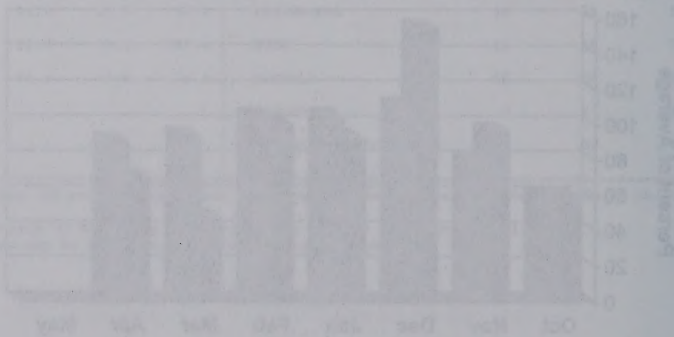
MADISON RIVER BASIN
Reservoir Storage (1000 AF) - End of April

MADISON RIVER BASIN
Watershed Snowpack Analysis - May 1, 2004

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
ENNIS LAKE	41.0	28.2	29.6	33.8	MADISON abv HEBGEN LAKE	5	99	78
HEBGEN LAKE	377.5	264.5	291.7	254.6	MADISON blw HEBGEN LAKE	12	75	70
					MADISON RIVER BASIN	17	82	73

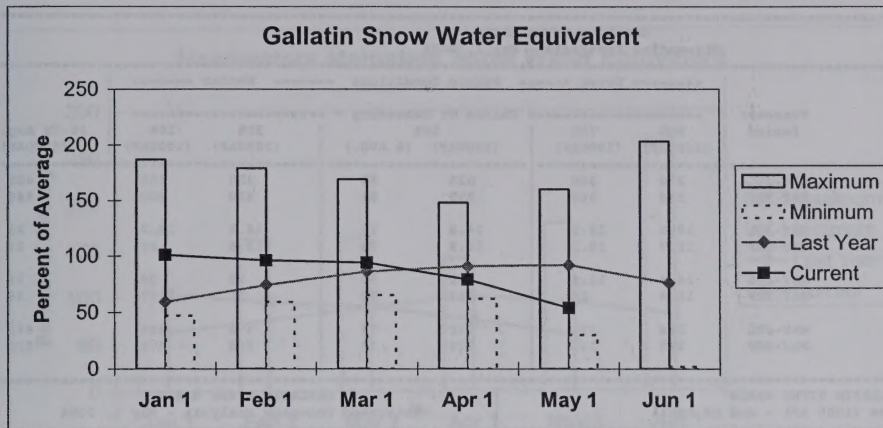
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) - The value is natural volume - actual volume may be affected by upstream water management.



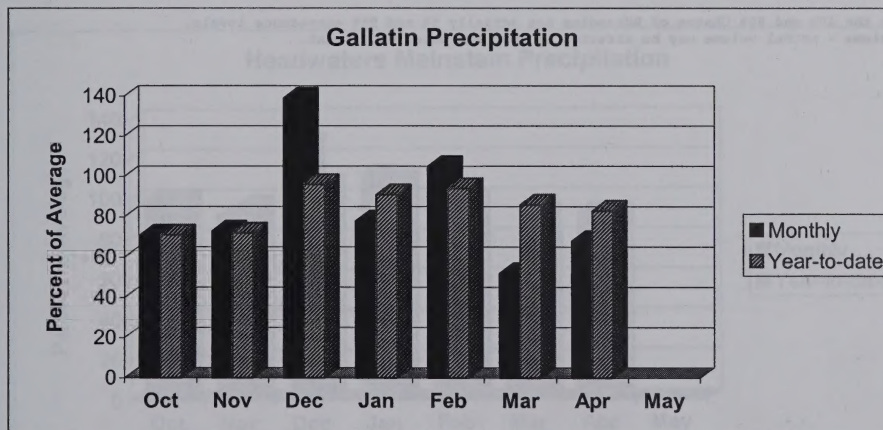
Gallatin River Basin

Snowpack in the Gallatin River Basin were well below average and decreased 25 percent from April 1. Snow water content was 54 percent of average and 59 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1966; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 2001; May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1975 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during April was 65 percent of average and 61 percent of last year. Valley precipitation during April was 95 percent of average and 48 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2003, was 86 percent of average and 75 percent of last year.



Middle Creek storage was 143 percent of average and 101 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.6 for the Gallatin River.

GALLATIN RIVER BASIN
Streamflow Forecasts - May 1, 2004

		<<----- Drier ----- Future Conditions ----- Wetter ----->>						
Forecast Point	Forecast Period	Chance Of Exceeding *						30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
GALLATIN RIVER nr Gateway	MAY-JUL	270	300	325	80	350	380	405
	MAY-SEP	320	360	390	81	420	460	480
HYALITE RESERVOIR Inflow	MAY-JUL	10.9	13.2	14.8	74	16.4	18.7	20
	MAY-SEP	12.7	15.2	16.9	74	18.6	22	23
HYALITE CREEK nr Bozeman (2)	MAY-JUL	14.4	18.9	22	71	25	30	31
	MAY-SEP	19.4	25	28	78	31	37	36
GALLATIN RIVER at Logan (2)	MAY-JUL	226	275	310	73	345	395	425
	MAY-SEP	275	335	375	74	415	475	505

GALLATIN RIVER BASIN Reservoir Storage (1000 AF) - End of April					GALLATIN RIVER BASIN Watershed Snowpack Analysis - May 1, 2004			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number This Year as % of		
		This Year	Last Year	Avg		Data Sites	Last Yr	Average
MIDDLE CREEK	10.2	7.6	7.5	5.3	UPPER GALLATIN	7	67	60
					HYALITE	3	62	57
					BRIDGER	3	32	33
					GALLATIN RIVER BASIN	13	59	54

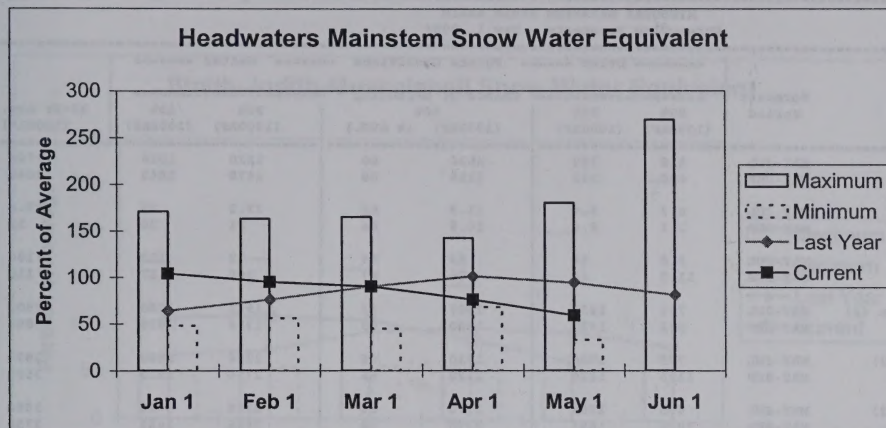
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
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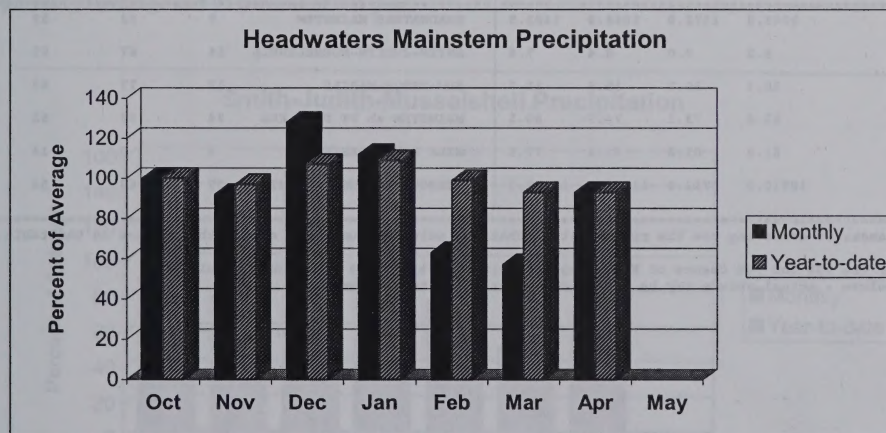
Missouri Mainstem River Basin

Snowpack in the Headwaters Missouri Mainstem River Basin were well below average and decreased 17 percent from April 1. Snow water content was 59 percent of average and 62 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1961 and 1966; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during April was 101 percent of average and 72 percent of last year. Valley precipitation during April was 87 percent of average and 61 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2003, was 93 percent of average and 90 percent of last year.



Canyon Ferry Lake storage was 93 percent of average and 82 percent of last year; Helena Valley storage was 118 percent of average and 107 percent of last year; Lake Helena storage was 91 percent of average and 98 percent of last year; Hauser & Helena storage was 122 percent of average and 98 percent of last year; Holter Lake storage was 105 percent of average and 100 percent of last year; and Fort Peck Lake storage was 64 percent of average and 88 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.3 in the Missouri River above Canyon Ferry; -3.6 in the Missouri River below Canyon Ferry; -2.5 in the Missouri River above Fort Peck; and -4.0 in the Missouri River below Fort Peck.

MISSOURI MAINSTEM RIVER BASIN
Streamflow Forecasts - May 1, 2004

		<----- Drier ----- Future Conditions ----- Wetter ----->						
Forecast Point	Forecast Period	Chance Of Exceeding *						30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
MISSOURI RIVER at Toston (2)	MAY-JUL	410	780	1020	60	1220	1530	1700
	MAY-SEP	490	940	1220	60	1470	1840	2040
PRICKLY PEAR CREEK nr Clancy	MAY-JUL	0.9	6.4	11.8	66	17.2	25	17.8
	MAY-SEP	1.1	8.4	14.6	66	21	30	22
DEARBORN nr Craig	MAY-JUL	8.0	44	68	64	92	128	106
	MAY-SEP	11.0	48	74	67	100	137	110
MISSOURI RIVER at Fort Benton (2)	MAY-JUL	761	1230	1580	63	1911	2380	2500
	MAY-SEP	921	1522	1930	63	2336	2930	3080
MISSOURI RIVER at Virgelle (2)	MAY-JUL	925	1500	1910	66	2280	2800	2890
	MAY-SEP	1120	1820	2320	66	2770	3400	3500
MISSOURI RIVER nr Landusky (2)	MAY-JUL	895	1562	1970	64	2378	3020	3080
	MAY-SEP	1090	1893	2390	64	2886	3680	3750
MISSOURI RIVER below Fort Peck (2)	MAY-JUL	1021	1622	2030	66	2440	3040	3080
	MAY-SEP	1228	1944	2430	66	2916	3631	3670
LAKE SAKAKAWEA Inflow (2)	MAY-JUL	3100	4360	5360	64	6450	7710	8370
	MAY-SEP	3590	5060	6270	64	7510	8990	9810

MISSOURI MAINSTEM RIVER BASIN
Reservoir Storage (1000 AF) - End of April

MISSOURI MAINSTEM RIVER BASIN
Watershed Snowpack Analysis - May 1, 2004

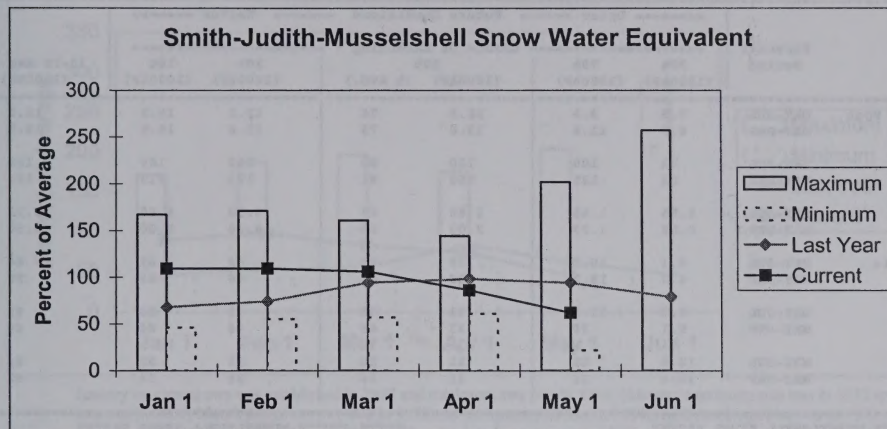
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CANYON FERRY LAKE	2043.0	1376.0	1668.0	1483.5	HEADWATERS MAINSTEM	9	62	59
HELENA VALLEY	9.2	9.0	8.4	7.6	SMITH-JUDITH-MUSSELSHELL	14	67	62
LAKE HELENA	10.4	10.7	10.9	11.7	SUN-TETON-MARIAS	12	73	45
HAUSER & HELENA	61.9	73.1	74.9	60.1	MAINSTEM ab FT PECK RES	34	67	53
HOLTER LAKE	81.9	81.2	81.2	77.1	MILK RIVER BASIN	4	0	14
FORT PECK LAKE	18910.0	9712.0	11030.0	15122.0	MISSOURI MAINSTEM BASIN	37	68	54

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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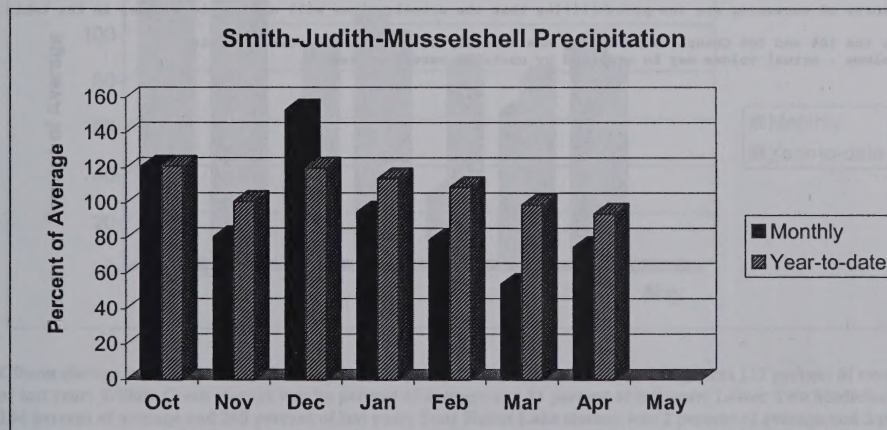
Smith-Judith-Musselshell River Basins

Snowpack in the Smith-Judith-Musselshell River Basins were well below average and decreased 24 percent from April 1. Snow water content in the Smith River Basin was 55 percent of average and 56 percent of last year; in the Judith River Basin was 76 percent of average and 81 percent of last year; and in the Musselshell Basin River was 52 percent of average and 56 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1988; February maximum swe was in 1978 and minimum swe was in 1987; March maximum swe was in 1978 and minimum swe was in 1987; April maximum swe was in 1970 and minimum swe was in 1992; and May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1967 and minimum swe was in 1987, 1992, 1994, and 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April in the Smith-Belts was 108 percent of average and 169 percent of last year; in the Judith was 70 percent of average and 42 percent of last year; and in the Musselshell was 57 percent of average and 37 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2003, was 94 percent of average and 91 percent of last year.



Smith River storage was 91 percent of average and 95 percent of last year; Bair storage was 69 percent of average and 100 percent of last year; Martinsdale storage was 42 percent of average and 98 percent of last year; and Deadman's Basin was 35 percent of average and 85 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.1 in the Smith River and -3.4 in the Musselshell River.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - May 1, 2004

		<<----- Drier ----- Future Conditions ----- Wetter ----->>						
Forecast Point	Forecast Period	Chance Of Exceeding *						30-Yr Avg (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
SHEEP CREEK nr White Sulphur Spgs.	MAY-JUL	7.5	9.9	11.5	76	13.1	15.5	15.1
	MAY-SEP	8.7	11.6	13.6	75	15.6	18.5	18.1
SMITH RIVER abv Eagle Creek	MAY-JUL	71	100	120	80	140	169	150
	MAY-SEP	88	125	150	81	175	210	185
NF MUSSELSHELL nr Delpine	MAY-JUL	0.55	1.55	2.40	65	3.30	4.50	3.70
	MAY-SEP	0.50	1.99	3.00	65	4.00	5.50	4.60
SF MUSSELSHELL abv Martinsdale	MAY-JUL	4.4	15.9	29	63	42	61	46
	MAY-SEP	4.0	18.3	32	64	46	66	50
MUSSELSHELL at Harlowton (2)	MAY-JUL	9.0	19.2	31	48	43	60	65
	MAY-SEP	9.1	20	33	48	46	64	69
MUSSELSHELL nr Roundup (2)	MAY-JUL	12.6	21	21	26	33	52	80
	MAY-SEP	12.4	21	21	26	34	53	82

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage ***		
		This Year	Last Year	Avg
SMITH RIVER	10.6	8.2	8.6	9.0
BAIR	7.0	3.8	3.8	5.5
MARTINSDALE	23.1	5.8	5.9	13.8
DEADMAN'S BASIN	72.2	20.8	24.4	58.9

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Watershed Snowpack Analysis - May 1, 2004

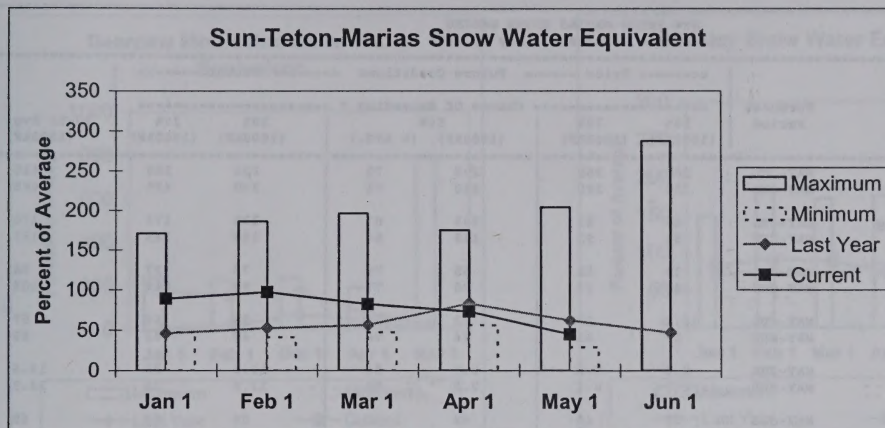
Watershed	Number of Data Sites	This Year as % of	
		Last Yr	Average
SMITH	8	56	55
JUDITH	6	81	76
MUSSELSHELL	5	56	52
SMITH-JUDITH-MUSSELSHELL	14	67	62

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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- (2) - The value is natural volume - actual volume may be affected by upstream water management.

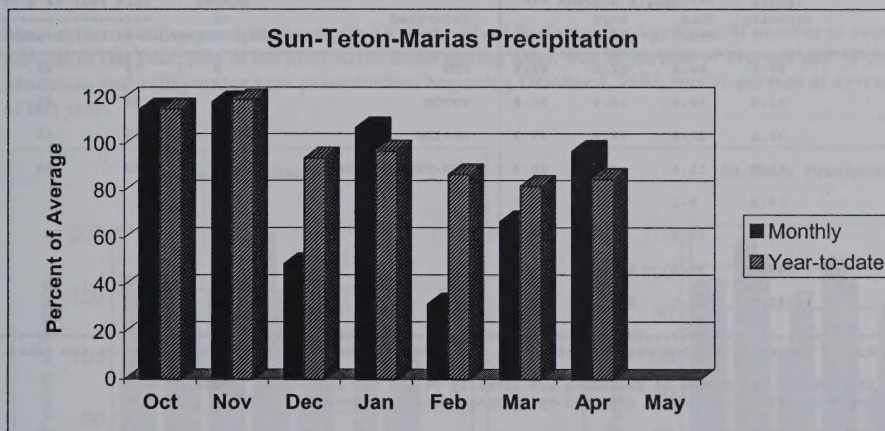
Sun-Teton-Marias River Basins

Snowpack in the Sun-Teton-Marias River Basins were severely below average and decreased 28 percent from April 1. Snow water content in the Sun River Basin was 46 percent of average and 79 percent of last year; in the Teton River Basin was 40 percent of average and 66 percent of last year; and in the Marias River Basin was 45 percent of average and 73 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 1984; April maximum swe was in 1972 and minimum swe was in 1984; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum was in 1972 and minimum swe was in 1987, 1992, and 1998. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April in the Sun was 122 percent of average and 98 percent of last year; in the Teton was 109 percent of average and 94 percent of last year; and in the Marias was 82 percent of average and 75 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2003, was 85 percent of average and 96 percent of last year.



Gibson storage was 111 percent of average and 84 percent of last year; Pishkun storage was 117 percent of average and 123 percent of last year; Willow Creek storage was 94 percent of average and 83 percent of last year; Lower Two Medicine Lake storage was 104 percent of average and 265 percent of last year; Four Horns Lake storage was 2 percent of average and 2 percent of last year; Swift storage was 109 percent of average and 85 percent of last year; Lake Frances storage was 69 percent of average and 50 percent of last year; and Lake Elwell (Tiber) storage was 110 percent of average and 89 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.1 in the Sun River; -2.8 in the Teton River; -3.1 in the Birch/Dupuyer Creeks; and -2.8 in the Marias River above Tiber Reservoir and -2.2 in the Marias River below Tiber Reservoir.

**SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - May 1, 2004**

		<<----- Drier ----- Future Conditions ----- Wetter ----->>						
Forecast Point	Forecast Period	90%		50%		30%		30-Yr Avg.
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	

GIBSON Reservoir Inflow	MAY-JUL	200	255	290	70	325	380	415
	MAY-SEP	235	290	330	71	370	425	465
TWO MEDICINE RIVER nr Browning	MAY-JUL	45	83	109	63	135	173	174
	MAY-SEP	55	93	119	64	145	183	187
BADGER CREEK nr Browning (2)	MAY-JUL	33	52	65	74	78	97	88
	MAY-SEP	46	66	80	77	94	114	104
SWIFT RESERVOIR Inflow	MAY-JUL	18.1	33	43	75	53	68	57
	MAY-SEP	27	43	54	78	65	81	69
DUPUYER CREEK nr Valier	MAY-JUL	0.6	5.2	6.3	54	12.3	21	11.6
	MAY-SEP	0.7	6.1	7.5	56	13.9	23	13.3
CUT BANK CREEK at Cut Bank	MAY-JUL	27	40	48	70	56	69	69
	MAY-SEP	32	46	55	71	64	78	78
MARIAS RIVER nr Shelby (2)	MAY-JUL	85	150	195	57	241	306	345
	MAY-SEP	101	166	210	57	255	320	370
TETON nr Dutton	MAY-JUL	1.7	7.8	21	50	34	54	42
	MAY-SEP	2.0	15.1	28	56	41	60	50

**SUN-TETON-MARIAS RIVER BASINS
Reservoir Storage (1000 AF) - End of April**

**SUN-TETON-MARIAS RIVER BASINS
Watershed Snowpack Analysis - May 1, 2004**

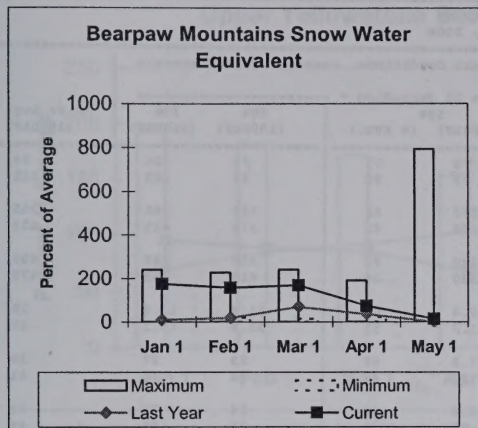
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GIBSON	99.1	68.6	82.0	61.8	SUN	5	79	46
PISHKUN	32.0	30.3	24.6	25.8	TETON	4	66	40
WILLOW CREEK	32.2	23.9	28.8	25.3	MARIAS	6	73	45
LOWER TWO MEDICINE LAKE	11.9	11.4	4.3	11.0	SUN-TETON-MARIAS	12	73	45
FOUR HORNS LAKE	19.2	0.2	11.1	12.3				
SWIFT	30.0	20.1	23.7	18.5				
LAKE FRANCES	112.0	52.1	103.6	75.6				
LAKE ELWELL (TIBER)	1347.0	726.5	812.3	658.6				

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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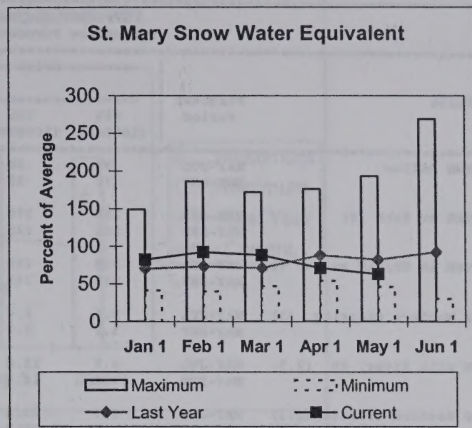
St. Mary and Milk River Basins

Snowpack in the St. Mary and Milk River Basins were well below average and decreased 8 percent from April 1. Snow water content in the Saint Mary River Basin was 63 percent of average and 77 percent of last year. The Milk River Basin (Bearpaw Mountains) snowpack was 14 percent of average.

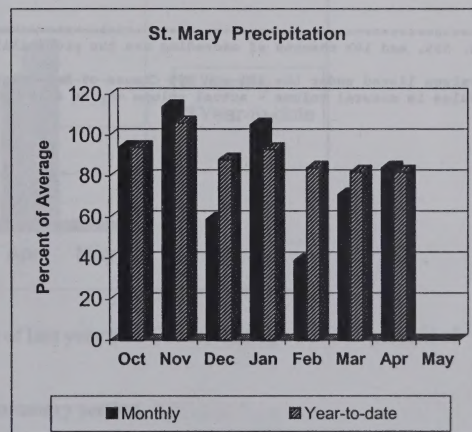
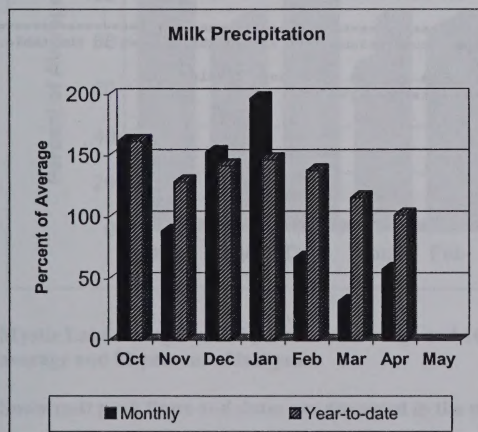


Bearpaw - January maximum swe was established in 1978 and minimum swe was in 1981; February maximum swe was 1978 and minimum swe was in 1973; March maximum swe was 1978 and minimum swe was 1995; April maximum swe was in 1985 and minimum swe was in 1973, 1983, and 1986; May maximum swe was 1975 and the minimum, 0.0, has occurred in several years. Average is for the period 1971 through 2000.

St. Mary - January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1967 and 1972 and minimum swe was in 2001; May maximum swe was in 19972 and minimum swe was in 1977; and June maximum swe was in 1972 and minimum swe was 1992. Average is for the period 1971 through 2000.



Mountain and valley precipitation in the St. Mary River Basin during April was 84 percent of average and 109 percent of last year; and in the Milk River Basin during April was 58 percent of average and 40 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2003, was 91 percent of average and 101 percent of last year.



Lake Sherburne storage was 34 percent of average and 44 percent of last year; Fresno storage was 50 percent of average and 52 percent of last year; Beaver Creek was 96 percent of average and 79 percent of last year; and Nelson storage was 103 percent of average and 77 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.2 for the Milk River.

ST. MARY and MILK RIVER BASINS
Streamflow Forecasts - May 1, 2004

		<<----- Drier ----- Future Conditions ----- Wetter ----->>						
Forecast Point	Forecast Period	Chance Of Exceeding *						30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
LAKE SHERBURNE Inflow	MAY-JUL	58	66	72	77	78	86	94
	MAY-SEP	73	83	89	80	95	105	112
ST. MARY RIVER nr Babb (2)	MAY-JUL	235	270	290	82	310	345	355
	MAY-SEP	285	325	350	82	375	415	425
ST. MARY RIVER at US/CAN Border (2)	MAY-JUL	245	290	320	80	350	395	400
	MAY-SEP	295	345	380	80	415	465	475
MILK RIVER @ Western Crossing (3)	MAY-JUL	2.4	6.4	9.8	49	11.8	13.4	20
	MAY-SEP	3.2	7.6	11.7	51	13.8	16.3	23
MILK RIVER @ Milk River, AB (2,3)	MAY-JUL	6.8	12.8	17.2	46	23	27	38
	MAY-SEP	7.8	14.4	20	49	26	30	41
MILK RIVER @ Eastern Crossing(2,3)	MAY-JUL	3.3	12.1	16.8	40	24	28	42
	MAY-SEP	5.4	15.2	21	43	31	35	49
BEAVER CREEK near Havre	MAY-JUL	0.14	0.70	1.00	14	2.42	4.52	7.00

ST. MARY and MILK RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage ***		
		This Year	Last Year	Avg
LAKE SHERBURNE	64.3	7.1	16.2	20.8
FRESNO	127.0	45.6	87.0	90.9
BEAVER CREEK	3.5	2.7	3.4	2.8
NELSON	66.8	43.9	56.8	42.7

ST. MARY and MILK RIVER BASINS
Watershed Snowpack Analysis - May 1, 2004

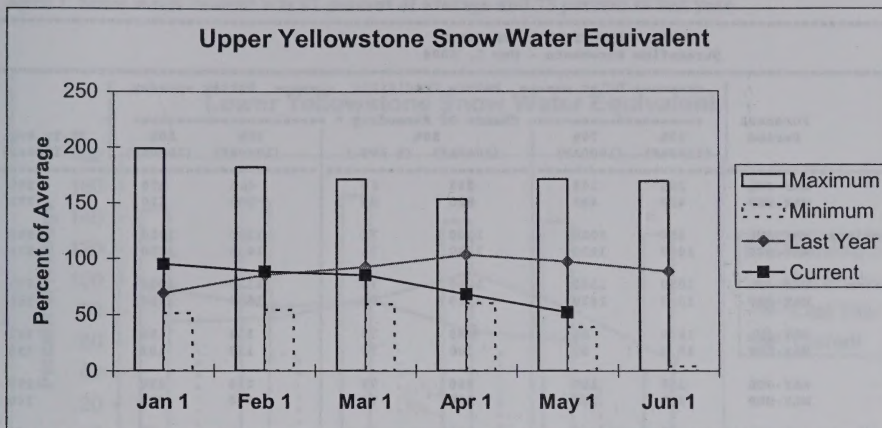
Watershed	Number of Data Sites	This Year as % of	
		Last Yr	Average
ST. MARY	8	77	63
BEARPAW MOUNTAINS	4	0	14
CYPRESS HILLS, CANADA	0	0	0
MILK RIVER BASIN	4	0	14
ST. MARY & MILK BASINS	12	77	62

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) - The value is natural volume - actual volume may be affected by upstream water management.

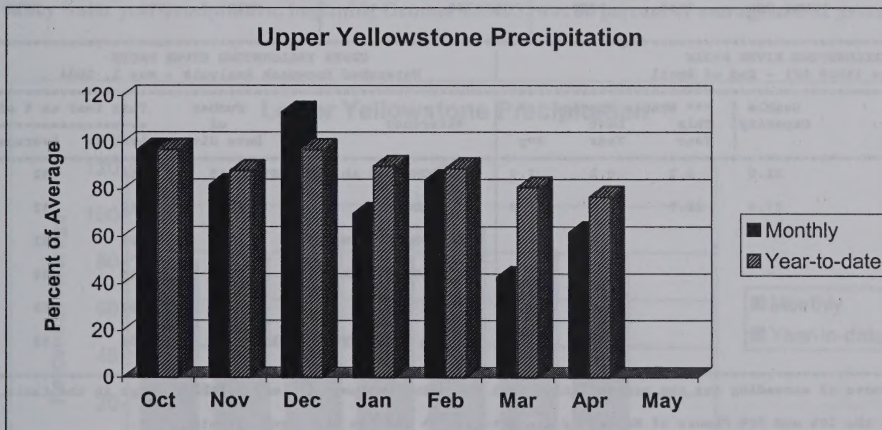
Upper Yellowstone River Basin

Snowpack in the Upper Yellowstone River Basin were well below average and decreased 16 percent from April 1. Snow water content was 52 percent of average and 54 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1997 and minimum swe was in 2001; April maximum swe was in 1997 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1987; and June maximum swe was 1996 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during April was 63 percent of average and 70 percent of last year. Valley precipitation during April was 61 percent of average and 67 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2003, was 77 percent of average and 78 percent of last year.



Mystic Lake storage was 20 percent of average and 100 percent of last year and Cooney storage was 109 percent of average and 88 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.9 in the Yellowstone River above Livingston; -3.2 in the Shields River; -3.5 in the Boulder River; -3.3 in the Stillwater River; -3.4 in the Rock/Red lodge Creeks; -2.5 in the Clarks Fork River; and -3.0 in the Yellowstone River above Bighorn River.

UPPER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - May 1, 2004

<----- Drier ----- Future Conditions ----- Wetter ----->								
Forecast Point	Forecast Period	Chance Of Exceeding *						30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
YELLOWSTONE at Lake Outlet	MAY-JUL	290	345	380	69	415	470	555
	MAY-SEP	430	485	520	68	555	610	770
YELLOWSTONE RIVER at Corwin Springs	MAY-JUL	890	1020	1100	71	1180	1310	1550
	MAY-SEP	1090	1230	1330	71	1430	1570	1870
YELLOWSTONE RIVER near Livingston	MAY-JUL	1050	1160	1240	70	1320	1430	1770
	MAY-SEP	1290	1430	1520	71	1610	1750	2150
SHIELDS RIVER nr Livingston	MAY-JUL	16.0	57	85	70	113	154	121
	MAY-SEP	19.0	67	100	73	133	181	138
BOULDER RIVER at Big Timber	MAY-JUL	150	180	200	73	220	250	275
	MAY-SEP	167	200	220	73	240	275	300
MYSTIC LAKE Reservoir Inflow (2)	MAY-JUL	35	41	45	79	49	55	57
	MAY-SEP	48	54	59	80	64	70	74
STILLWATER RIVER nr Absarokee (2)	MAY-JUL	250	305	340	72	375	430	470
	MAY-SEP	315	370	410	73	450	505	560
CLARKS FORK RIVER nr Belfry	MAY-JUL	320	370	400	78	430	480	515
	MAY-SEP	355	405	440	77	475	525	570
COONEY RESERVOIR Inflow (2)	MAY-JUL	1.9	11.1	20	53	29	42	38
	MAY-SEP	5.1	18.1	27	55	36	49	49
YELLOWSTONE RIVER at Billings (2)	MAY-JUL	1490	2000	2340	72	2680	3190	3250
	MAY-SEP	1750	2350	2760	72	3170	3770	3850

UPPER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage ***		
		This Year	Last Year	Avg
		Year	Year	
MYSTIC LAKE	21.0	0.2	0.2	1.0
COONEY	27.4	22.7	25.7	20.9

UPPER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - May 1, 2004

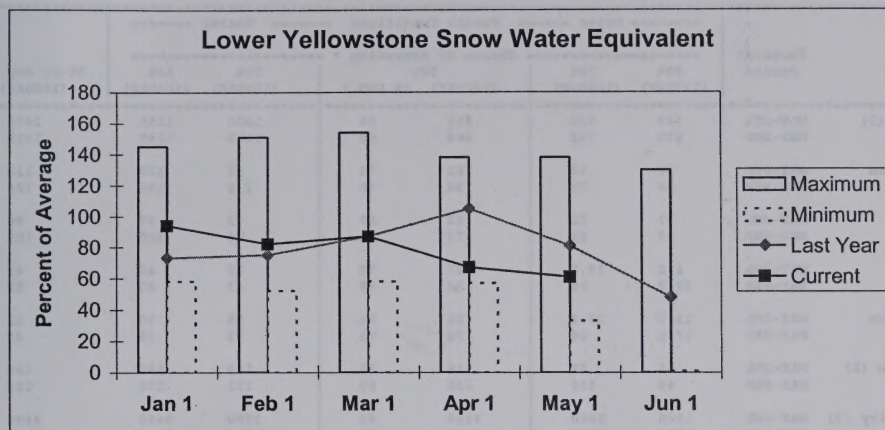
Watershed	Number of Data Sites	This Year as % of	
		Last Yr	Average
YELLOWSTONE ab LIVINGSTON	15	54	52
SHIELDS	5	43	42
BOULDER-STILLWATER	4	64	61
RED LODGE-ROCK CREEK	6	45	44
CLARK'S FORK	7	62	63
UPPER YELLOWSTONE BASIN	33	54	52

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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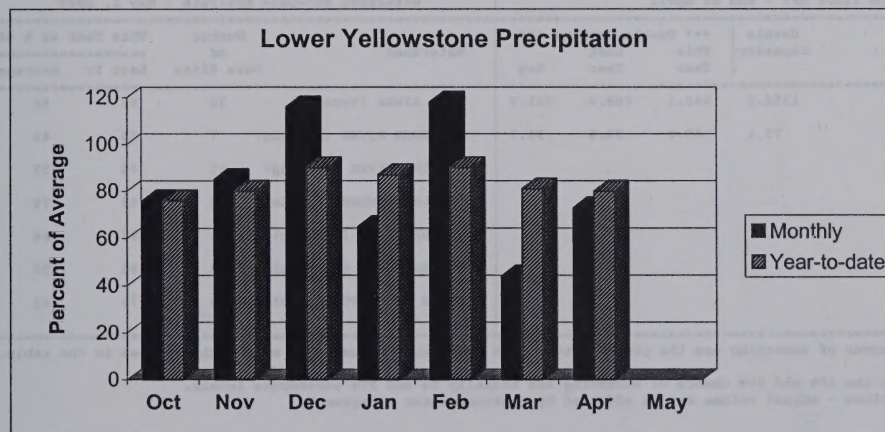
Lower Yellowstone River Basin

Snowpack in the Lower Yellowstone River Basin, in Wyoming, were below average and decreased 6 percent from April 1. Snow water content was 61 percent of average and 75 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 2000; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1986 and minimum swe was in 2001; April maximum swe was in 1986 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1981; and June maximum swe was in 1995 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April was 73 percent of average and 105 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2003, was 80 percent of average and 81 percent of last year.



Bighorn Lake storage was 81 percent of average and 105 percent of last year and Tongue River storage was 156 percent of average and 89 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.3 in the Bighorn River below Bighorn Lake; -2.9 in the Little Bighorn River; -3.1 in the Yellowstone River below Bighorn River; -3.2 in the Tongue River; and -2.9 in the Powder River.

LOWER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - May 1, 2004

Forecast Point	Forecast Period	<<----- Drier ----- Future Conditions ----- Wetter ----->>						
		Chance Of Exceeding *		Chance Of Exceeding *		Chance Of Exceeding *		30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
BIGHORN RIVER nr St. Xavier (2)	MAY-JUL	480	710	865	59	1020	1255	1470
	MAY-SEP	535	785	960	59	1135	1385	1630
LITTLE BIGHORN RIVER nr Hardin	MAY-JUL	36	63	81	74	99	126	110
	MAY-SEP	46	75	95	75	115	144	126
TONGUE RIVER nr Dayton (2)	MAY-JUL	37	52	62	69	72	87	90
	MAY-SEP	46	62	73	71	84	100	103
BIG GOOSE CREEK nr Sheridan	MAY-JUL	6.0	18.5	27	55	35	48	49
	MAY-SEP	12.7	25	34	59	43	55	58
LITTLE GOOSE CREEK nr Big Horn	MAY-JUL	11.6	17.2	21	66	25	30	32
	MAY-SEP	17.6	24	28	70	32	38	40
TONGUE RIVER RESERVOIR Inflow (2)	MAY-JUL	33	82	115	58	148	195	199
	MAY-SEP	48	100	136	60	172	222	225
YELLOWSTONE RIVER at Miles City (2)	MAY-JUL	1900	2660	3180	65	3700	4460	4890
	MAY-SEP	2250	3140	3750	65	4360	5250	5740
POWDER RIVER at Moorehead	MAY-JUL	13.0	75	117	66	159	220	178
	MAY-SEP	28	91	134	67	177	242	200
POWDER RIVER near Locate	MAY-JUL	67	97	118	61	139	169	195
	MAY-SEP	81	116	139	63	162	197	220
YELLOWSTONE RIVER nr Sidney (2)	MAY-JUL	2130	2700	3220	65	3740	4520	4950
	MAY-SEP	2480	3110	3720	65	4330	5230	5760

LOWER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of April

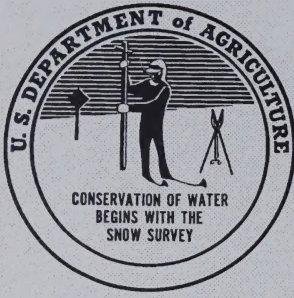
Reservoir	Usable Capacity	*** Usable Storage ***		
		This Year	Last Year	Avg
BIGHORN LAKE	1356.0	640.1	608.0	791.9
TONGUE RIVER	79.1	49.4	55.8	31.7

LOWER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - May 1, 2004

Watershed	Number of Data Sites	This Year as % of	
		Last Yr	Average
WIND RIVER (Wyoming)	20	96	66
SHOSHONE RIVER (Wyoming)	7	50	48
BIGHORN RIVER (Wyoming)	21	68	58
LITTLE BIGHORN (Wyoming)	3	83	70
TONGUE RIVER (Wyoming)	11	67	64
POWDER RIVER (Wyoming)	9	84	58
LOWER YELLOWSTONE BASIN (	50	75	61

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Montana
Water Supply Outlook
Report
Natural Resources Conservation Service
Bozeman, MT

